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UUU	UUU	EEEEEEEEEEEE	!!!!!!!!!!!!!!!!	PPPPPPPPPPP	SSSSSSSSSSS	YYY	YYY
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UUU	UUU	EEEEEEEEEEEE	111111111111111111111111111111111111111	PPTPPPPPPPPP	SSSSSSSSSSSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	III	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	111	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEE	TTT	PPP PPP	SSS	YYY	YYY
UUU	UUU	EEEEEEEEEE	TTT	PPPPPPPPPPP	SSSSSSSS	YYY	
UUU	UUU	EEEEEEEEEE	111	PPPPPPPPPPP	SSSSSSSS	YYY	
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UUU	UUU	EEE	İİİ	PPP	SSS	YYY	1
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SAT VO4

Page

0

AUTHOR: Larry D. Jones,

CREATION DATE: JULY, 1979

MODIFIED BY:

V03-004 KDM0002 Kathleen D. Morse Added \$PRDEF and \$SSDEF.

28-Jun-1982

SAT

(1)

SA

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 Page 3
DECLARATIONS 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1 (1)
```

SAT

```
.SBTTL DECLARATIONS
                          6666677777777777788888888889999999999
                                 MACRO LIBRARY CALLS
                                          .LIBRARY /SYS$LIBRARY:STARLET.MLB/
                                                                                           attribute control block definitions
                                          SCCBDEF
                                                                                           channel control block definitions
                                                                                           device characteristics definitions device definitions device information block definitions
                                          SDCDEF
                                          SDEVDEF
                                          $DIBDEF
                                                                                           $GETDVI definitions
file information block definitions
process header offset definitions
                                          SDVIDEF
SFIBDEF
                                          SPHDDEF
                                                                                           processor register definitions privilege definitions PSL definitions
                                          SPRDEF
                                          SPRVDEF
                                          $PSLDEF
                                          $SHR MESSAGES UETP, 116, <<TEXT, INFO>> ; UETP$ TEXT definition 
$SFDEF ; stack frame definitions
                                                                                         : system status code definitions : STS definitions
                                          $SSDEF
                                          $STSDEF
                                                                                         : UETP message definitions
                                          SUETPDEF
                                 Equated symbols
00000000
00000001
00000002
00000003
                              WARNING
                                                                                         ; warning severity value for msgs
                                                      = 0
                              SUCCESS
                                                     = 1
                                                                                         : success
                                                     =\frac{2}{3}
                              ERROR
                                                                                           error
                                                                                           information "
                                                                                                                               ..
                                                                                                                                     ..
                                                                                                                       ..
                              INFO
00000004
                                                     = 4
                              SEVERE
                                                                                           fatal
00040004
                              MFD_FILE_ID
                                                      = <4016>+4
                                                                                         : MFD ID
                                 MACROS
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00 DECLARATIONS
SATSSS01
V04-000
                                                             .PSECT RODATA, RD, NOWRT, NOEXE, LONG
                                                100 :
101 TEST_MOD_NAME:
102 .ASCIC
         31 30 53 53 53 54 41 53 00'
                                                              ASCIC /SATSSSO1/
                                                                                                ; needed for SATSMS message
                                                103 TEST_MOD_NAME_D:
104 .ASCID /SATSSSO1/
53 53 53 54 41 53 00000011'010E0000
                                                                                                : module name
                                                105 TEST_MOD_BEGIN:
106 .ASCIC /begun/
                                                                                                ; start end and fail messages
                   6E 75 67 65 62 00°
                                                107 TEST_MOD_SUCC:
108 .ASCIC /successful/
   60 75 66 73 73 65 63 63 75 73 00'
                                                109 TEST_MOD_FAIL:
110 .ASCIC /failed/
                64 65 6C 69 61 66 00°
                                                111 ASSIGN:
                                                                                                : system service names
                                                             .ASCIC /ASSIGN/
                4E 47 49 53 53 41 00'
                                                113 ALLOC:
                   43 4F 4C 4C 41 00'
                                                             .ASCIC /ALLOC/
                                                115 CANCEL:
                                                              .ASCIC /CANCEL/
                4C 45 43 4E 41 43 00'
                                                117 DASSGN:
                4E 47 53 53 41 44 00'
                                                              .ASCIC /DASSGN/
                                                119 DALLOC:
                43 4F 4C 4C 41 44 00'
                                                              .ASCIC /DALLOC/
                                                121 INPUT:
                   54 55 50 4E 49 00'
                                                              .ASCIC /INPUT/
                                                123 GETCHN:
124
                4E 48 43 54 45 47 00°
                                                              .ASCIC /GETCHN/
                                                125 GETDEV:
                56 45 44 54 45 47 00'
                                                              .ASCIC /GETDEV/
                                                127 OUTPUT:
                54 55 50 54 55 4F 00'
                                                              .ASCIC /OUTPUT/
                                                129 QIO:
130
                          4F 49 51 00°
                                                              .ASCIC /QIO/
                                                131 QIOW:
                       57 4F 49 51 00°
                                                              .ASCIC /QIOW/
                                                133 DCLCMH:
                48 4D 43 4C 43 44 00°
                                                              .ASCIC /DCLCMH/
                                                135 RENAST:
                                                              .ASCID /QIOTST.DAT:1
                                                                                                : returned name string
                                                137 DISK:
```

```
(SUCC S.C.) 16-SEP-1984 00
5-SEP-1984 04
SATSSS01
V04-000
49 44 24 53 59 53 0000009F 010E0000 4B 53
                                                    138
                                                                  .ASCID /SYSSDISK/
                                                                                                        : gio device name
                                                    139 CS1:
                                                                  .ASCID \Test !AC service name !AC step !UL failed.\
                                            00B5
                                                    141 CS2:
                                                                  .ASCID \Expected !AS = !XL received !AS = !XL\
                                                    143 CS3:
                     0000010E'010E0000
53 41 21 20 64 65
65 72 20 40 58 21
55 21 53 41 21 20
                 45
21
63
42
                                                                  .ASCID \Expected !AS!UB = !XL received !AS!UB = !XL\
                                                    145 CS4:
                                                                  .ASCID \Required channel not received.\
                                                    147 CS5:
148
77 20 65 64 6F
                                                                  .ASCID \Mode was !AS.\
                                                    149 EXP:
73 75 74 61 74 73 0000017C'010E0000
                                                                  .ASCID \status\
                                                    151 IOEXP:
61 74 73 20 4F 49 0000018A 010E0000 73 75 74
                                                                  .ASCID \10 status\
                                                    153 ASTEXP:
61 70 20 54 53 41 0000019B 010E0000
2E 6D 61 72
                                                                  .ASCID \AST param.\
                                                    155 DISALL:
61 20 6B 73 69 64 000001AD 010E0000
2E 63 6F 6C 6C
                                                                  .ASCID \disk alloc.\
                                                    157 IOCC:
63 20 66 6F 20 23 000001C0 010E0000 73 27 6E 61 68
                                                                  .ASCID \# of chan's\
                                                    159 FILNOTMOD:
                                                                  .ASCID . \File characteristics not properly modified!\
                                                                                                        ; mode messages
       72 65 73 75 00000206'010E0000'
                                                                  .ASCID \user\
   72 65 70 75 73 00000212'010E0000'
                                                                  .ASCID \super\
74 75 63 65 78 65 0000021F 010E00000 65 76 69
                                                                  .ASCID \executive\
                                                    167 KM:
168
169 MBA
170
171 EFCI
6C 65 6E 72 65 6B 00000230'010E0000'
                                                                  .ASCID \kernel\
                                                                                                        : mailbox name
          41 42 4D 0000023E'010E0000
                                                                  .ASCID \MBA\
                                                                                                        : common EFC name
```

SATSSS01 V04-000	- SATS ST DECLARAT	TEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00	:44:47 VAX/VMS Macro V04-00 Page 6:29:37 [UETPSY.SRC]SATSSS01.MAR;1 (1)
45 24 50 54 45 55 00	0000249'010E0000' 024	172 .ASCID \UETPSEF\	
	00000000 0250 0250 0250	173 TEST_DATA: 174 A=0 175 .REPT 132 176 .BYTE A	; QIO test data
	00 0250	177 A=A+1 178 .ENDR 179 ARGLST:	
	00000001 0204 0000118B' 0204	180 .LONG 1	; super mode setup arg list
	0000003 0200 00741133 0260 00000001 0264 000002FF* 0268	182 MSGVEC: 183	; PUTMSG message vector

SAT

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 DECLARATIONS 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                       R/W PSECT
RWDATA, RD, WRT, NOEXE, LONG
                                                     TPID:
                              00000000
                                                               LONG
                                                                                                  : PID for this process
                                                     CURRENT_TC:
                              00000000
                                                                                                  ; ptr to current test case
                                                               ALIGN LONG
                                                                                                  : put it on a long word boundry
                                                     REG_SAVE_AREA:
                              00000044
                                                                       15
                                                                                                  : register save area
                                                     MOD_MSG_CODE:
                              007480D9
                                                                       UETPS_SATSMS
                                                                                                  ; test module message code for putmsg
                                                     TMN_ADDR:
                              00000000
                                                               .ADDRESS TEST_MOD_NAME
                                                     TMD_ADDR:
                              00000019
                                                               .ADDRESS TEST_MOD_BEGIN
                                                     PRVPRT:
                                    00
                                                               .BYTE
                                                                                                  ; protection return byte for SETPRT
                                                     PRIVMASK:
                    00000000 00000000
                                                               QUAD.
                                                                                                  : priv. mask
                                                     CHM_CONT:
                              00000000
                                                               .LONG
                                                                                                  ; change mode continue address
                                                     RETADR:
                              00000065
                                                               .BLKL
                                                                                                  ; returned address's from SETPRT
                                                     STATUS:
                              00000000
                                                               .LONG
                                                     STAT:
                              00000071
                                                               .BLKL
                                                                                                  : 10 status blk's
                                                     STAT1:
                              00000079
                                                               .BLKL
                                                     ASGN:
                                                              $ASSIGN MBNAM, CHAN2, PSL$C_USER, 0; ASSIGN parameter list
                                                     ALLO:
                                                              $ALLOC MBNAM, ML, GETBUF, PSL$C_USER; ALLOC parameter list
                                                     CANC:
                                                              SCANCEL MBCHAN
                                                                                                  ; CANCEL parameter list
                                                     DASS:
                                                              SDASSGN 0
                                                                                                  ; DASSGN parameter list
                                                     DALL:
                                                              $DALLOC MBNAM, PSL$C_USER
                                                                                                  ; DALLOC parameter list
                                                     GETC:
                                                              SGETCHN O,PL,PB,SL,SB
                                                                                                  : GETCHN parameter list
                                                     GETD:
                                                              SGETDEV MBNAM, PL, PB, SL, SB
                                                                                                 ; GETDEV parameter list
                                                     QIOP:
                                                                       31, CHAN1, IO$_READVBLK, STAT1, 0, 0, GETBUF+8, 80, 0, 0, 0, 0; QIO parameter'
                                                              SQIO
                                                     QIOWP:
                                                              SQIOW
                                                                       31, MBCHAN, IOS_READVBLK, STAT1, 0, 0, GETBUF+8, 80, 0, 0, 0, 0; QIOW param's
                                                     MODE:
                                                                                                  ; current mode string pointer
                              00000000
                                                               .LONG
                                                                       0
                                                     REG:
                           65'010E0000
52 20 72 65
74 73 69 67 65 72 00000165
                                                               .ASCID \register R\
                                                     REGNUM:
                                                               .LONG
                              00000000
                                                                                                  ; register number
                                                     MSGL:
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 R/W PSECT 5-SEP-1984 04:29:37
SATSSS01
V04-000
                                                                                                              VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                               00000050
0000017B
                                                                  .LONG
                                                                          80
                                                                                                      : buffer desc.
                                                                 . ADDRESS BUF
                                                        BUF:
                               000001CB
                                                                 .BLKB
                                                                          80
                               00000000
                                                                  . LONG
                                                                                                      ; desc. for BUF_CHECK routine
                               000001DB'
                                                                  .ADDRESS GETBUF+8
                                                        GETBUF:
                               00000084
                                                                 . LONG
                                                                        132
                                                                                                      : same as above
                                                                 ADDRESS .+4
                               000001DB'
                                           0107
                                                        CTRSTR:
                               00000084
00000267*
000002EB
                                                                 . LONG
                                                                         132
                                                                                                      ; same as above
                                                                 ADDRESS .+4
BLKB 132
                                                        ARGLST1:
                                                                                                      ; argument list for BUF_CHECK
                               00000236°
                                                                  ADDRESS MBA
                                                                  .BLKL
                                                       MESSAGEL:
                               00000000
                                                                  LONG
                                                                                                      ; message desc.
                               0000017B
                                                                  ADDRESS BUF
                                                   265
266
267
268
269
270
                                                        SERV_NAME:
                               00000000
                                                                  LONG
                                                                                                      ; service name pointer
                                                       PRVHND1:
                               00000000
                                                                  LONG
                                                                                                      ; previous handler address 1
                                                        MBNAM:
4D 24 50 54 45 55 00000317'010E0000'
                                                                 .ASCID
                                                                         /UETP$MB/
                                                                                                      ; logical name for mailbox
                                           031D
                                                       MBCHAN:
                                    0000
                                                                 . WORD
                                                                                                      ; mailbox channel number
                                                        CHAN1:
                                    0000
                                                                 . WORD
                                                                                                      ; utility channel numbers
                                                       CHAN2:
                                    0000
                                                                  WORD
                                                       CHAN_SAVE:
                                    0000
                                                                  WORD
                                                                                                       channel count save location
                                                       MSGVEC1:
                                                                                                      ; PUTMSG message vector
                                                   00000003
                                                                 . LONG
                               00741133
                                                                          UETP$_TEXT
                                                                 .LONG
                                                                 .LONG
                               00000000
                                                                  LONG
                                                       MB_DEV_CHAR:
                                                                          DEV$M_SHR!DEV$M_REC!DEV$M_AVL!DEV$M_IDV!DEV$M_ODV!DEV$M_MBX ; device class pt$_MBX ; device type
                               0C150001
                                                                 .LONG
                                                                 .BYTE
                                                                 .BYTE
                                    0100
                                                                 . WORD
                                                                                                         buffer size
                               00000000
                                                                                                         device dependent info.
                                                                  . LONG
                              0024 0000
                                                                          0.36
                                                                  WORD
                                                                                                         unit # & device name offset
                                                                  .LONG
                                                                                                        PID
                               00010007
                                                                           ^x10007
                                                                  LONG
                                                                                                        owner UIC
                                00000000
                                                                  LONG
                                                                                                        volume protection & error cnt
                                00000000
                                                                  .LONG
                                                                                                        operation count
                                00000000
                                                                  LONG
                                                                                                        volume name offset & record size
                            41 42 4D 00'
                                                                 .ASCIC
                                                                         /MBA/
                                                                                                        device name
                                                   297
298 PL:
                               00000028
                                                                 MB_CHAR_SIZE=.-MB_DEV_CHAR
```

V04

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                                                                                                (1)
                                     00000000
                                                                             . LONG
                                                            300 SL:
301
302 PB:
303
                                     00000000
                                                                             .LONG
                                     00000074
0000036E'
                                                                            .LONG DIB$K_LENGTH .ADDRESS .+4 .BLKB DIB$K_LENGTH
                                                            306 SB:
                                     00000074
000003EA'
0000045E
                                                                             .LONG DIB$K_LENGTH .ADDRESS .+4 .BLKB DIB$K_LENGTH
                                                             10 FIBDES:
                                     00000029:
                                                                             .LONG FIBSIZE .ADDRESS FIB
                                                                                                                        ; file information block desc.
                                                             313 FIB:
                                     00000000
                                                                                                               ACCTL
                                                                             . LONG
                                     00000470
00040004
0000048F
00000029
                                                                             BLKW
                                                                                                             : FID
                                                                                       MFD_FILE_ID
                                                                             .LONG
                                                                                                                        : leave room for add in fields
                                                                            FIBSIZE = . - FIB
                                                                                                                        ; set FIB size
                                                            319 ATR:
                                   0010 0056
000004E4*
00000000
                                                                            .WORD ATR$S_ASCNAME,ATR$C_ASCNAME ; attributes control block .ADDRESS_TOPSYS_DIR .LONG 0
                                                            323 FILENAME:
54 53 54 4F 49 51 000004A3'010E0000'
                                                                             .ASCID /QIOTST.DAT:1/
                                                                                                                        ; gio test file name
                         31 3B 54 41 44 2E
                                                            325 SYSTEST_DIR:
                                                   04AF
53 45 54 53 59 53 000004B7'010E0000'
31 38 52 49 44 2E 54
                                                                            .ASCID /SYSTEST.DIR:1/
                                                                                                                        : SYSTEST directory name
                                                   04BD
                                                           327 DOT_DIR_SEMI:
328
.ASCID /.DIR:1/
329 DOT_DIR_SEMI_LENGTH = .-DOT_DIR_SEMI-8
330 TOPSYS:
.ASCID /SYS$TOPSYS/
                                                                                                                        ; Concatenates with TOPSYS_DIR
31 3B 52 49 44 2E 000004CC'010E0000'
                                     00000006
                                                                                                                        : Length of ASCII string
: Logical name of any top level...
4F 54 24 53 59 53 000004DA'010E0000'
                                                                                                                        : ...system directory name
                                                            332 TOPSYS_DIR:
333 .LOI
334 .ADI
335 .BLI
                                                                                                                        ; Receives file name of top level...
                                                                            .LONG
                                     000000F
                                                                             LONG 9+DOT_DIR_SEMI_LENGTH
                                                                                                                        : ...system directory ...
                                     000004EC*
                                                                                                                        : ...and gets converted to...
: ...a file spec for it
                                                                             .BLKB 9+DOT_DIR_SEMI_LENGTH
```

V04

```
- SATS_SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
 00000000
                                            .PSECT SATSSSO1, RD, WRT, EXE, LONG .SBTTL SATSSSO1
                             : FUNCTIONAL DESCRIPTION:
                                After performing some initial housekeeping, such as printing the module begin message and acquiring needed privileges, the system services are tested in each of their normal conditions. Detected failures are identified and an error message is printed on the terminal. Upon completion of the test a success or fail message is printed on the terminal.
                                CALLING SEQUENCE:
                                           $ RUN SATSSSO1 ... (DCL COMMAND)
                                INPUT PARAMETERS:
                                           none
                                 IMPLICIT INPUTS:
                                           none
                                OUTPUT PARAMETERS:
                                           none
                                 IMPLICIT OUTPUTS:
                                           Messages to SYS$OUTPUT are the only output from SATSSSO1. They are of the form:
                                                          XUETP-S-SATSMS, TEST MODULE SATSSSO1 BEGUN ... (BEGIN MSG)
XUETP-S-SATSMS, TEST MODULE SATSSSO1 SUCCESSFUL ... (END MSG)
XUETP-E-SATSMS, TEST MODULE SATSSSO1 FAILED ... (END MSG)
XUETP-I-TEXT, ... (VARIABLE INFORMATION ABOUT A TEST MODULE FAILURE)
                                COMPLETION CODES:
                                           The SATSSSO1 routine terminates with a SEXIT to the
                                           operating system with a status code defined by UETPS_SATSMS.
                                SIDE EFFECTS:
                                            none
                                           TEST_START SATSSSO1
                                                                                                                    ; let the test begin
```

SAT VO4

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37
                                                                                                                                                   VAX/VMS Macro V04-00
EUETPSY.SRCJSATSSS01.MAR;1
                                       0000
                                                                                               ENTRY SATSSSOI, O
                                          D4
DD
DF
                          0004 CF
                                                                                               PUSHL
                          0000
                                                                                                PUSHAL
                                                                                                            #2,G^SYS$WAKE
#0,G^SYS$HIBER
W^TEST_MOD_NAME_D
#1,G^SYS$SETPRN
                                                                                                CALLS
          00000000
                          0009
                                                                                                PUSHAQ
          00000000 GF
                                          FBO DEO DE
                                                                                                CALLS
                                                                                                            WAMOD MSG PRINT
WATEST MOD SUCC, WATMD ADDR
WSUCCESS, WO, WS, WAMOD MSG CODE
                                                                                                BSBW
0044'CF 03
                                                                                                MOVAL
                                                                                                INSV
                                                                                               PUSHL
                 1385 CF
                                  01
                                                                                               CALLS #1, WAREG_SAVE
                                                                    STPO:
                                                                                 $CMKRNL_S W^SETUP_SUPER, W^ARGLST ; declare CHMS handler ADDL2 S^#EXE$C_CMSTKSZ+16,SP ; adjust the user stack
                                          CO
DO
FB
                1AF2'CF
                                                                                                                                      : adjust the user stack pointer ; fix the frame pointer
                                                                                               SP,FP
                                                                                  MOVL
                                                                                              #O.W^ERLBUF DUMP
ASSIGN AND DASSGN TESTS
                                                                                  CALLS
                                                                                                                                           dump any errors that occured at kernal mod
                                                                       $ASSIGN and $DASSGN tests
                                                                       ** NOTE **
                                                                       Because the only device that is reasonable to use for the ASSIGN/DASSGN tests is a mailbox, the MBXNAM parameter is not tested by this program. The only devices using this parameter are lineprinters, networks, and terminals and none of these things can be guaranteed available.
                                                                       test user mode
                                                                                 MOVAL WASSIGN, WASERV_NAME
MOVAL WAMMODE
SASSIGN_S CHAN = WAMBCHAN, -
DEVNAM = WAMBNAM
        0307'CF
0159'CF
                         0031'CF
01FE'CF
                                          DE
                                                                                                                                                     ; set service name
                                                                                                                                                      ; set mode
                                                                                                                                                     ; see if perm MBX left over
; is it here
; br if not
                                                                                               RO #SS$_NOSUCHDEV
                                  50
          00000908 8F
                                                                                  CMPL
                                                 007D
                                                                                 BEQL
                                                                                 $DELMBX_S CHAN = W^MBCHAN
$DASSGN_S CHAN = W^MBCHAN
                                                                                                                                                     : else get rid of it
: drop the channel
                                                                    105:
                                                                                              #0, W^COUNT_CHAN
W^TOTAL_CHAN, W^CHAN_SAVE
#PSL$C_USER
#1, W^ASSDAS_CHK
#0, W^ERLBUF_DUMP
                                          FBO DD FB FB
        0324'CF 1338'CF
                                                                                 CALLS
                                                                                                                                                        get enviromental channel count
                                                 0090
00A3
00A5
00AF
00AF
00AF
                                                                                  MOVL
                                                                                                                                                        save the environmental chan count
                                                                                 PUSHL
                                                                                                                                                        push the access mode
                 1BEF 'CF
                                                                                  CALLS
                                                                                                                                                        do the assign/deassign tests
                                  00
                                                                                  CALLS
                                                                                                                                                     ; dump any errors
                                                             420
421
423
423
425
                                                                       test super mode
                                                                                 NEXT_TEST
                                                                    STP1:
                 0004 °CF
                                  01
                                          DO
                                                                                               MOVL
                                                                                                             #1, W^CURRENT_TC
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
ASSIGN AND DASSGN TESTS (SUCC S.C.) 16-SEP-1984 04:29:37
                                                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR:1
                            PUSHL #0
CALLS #1, WAREG SAVE
WASSIGN, WASERV_NAME
WASM, WAMODE
                                                             MOVAL
                                                                                                                         set service name
                                                             MOVAL
                                                                                                                         set the mode
                                                             CHMS
                                                                                                                         do the super tests
       1AF2'CF
                      00
                                                             CALLS
                                                                         #0, W^ERLBUF_DUMP
                                                                                                                       ; dump any errors
                                                     test exec mode
                                                             NEXT_TEST
                                                  STP2:
                                                                                    #2,W^CURRENT_TC
       0004°CF
                     00
                                                                         MOVL
                            DEBE
                                                                         PUSHL
1385'CF
0159'CF 02
0307'CF 00
                     01
                                                                                    #1, WAREG_SAVE
                                                             MOVAL WASSIGN, WASERV_NAME
SCHEXEC_S BA10$
BRW 20$
                                            436
437
438
439
440 10$:
441
442
443
              0217'CF
0031'CF
                                                                                                                       ; set the mode
                                                                                                                       ; set service name
                                                                                                                       ; get thee to exec mode
                  000A
                            31
                          0000
                                                              WORD
                     01
                            DD
FB
04
                                                             PUSHL
                                                                         #PSL$C_EXEC
#1,W^ASSDAS_CHK
                                                                                                                       ; push the access mode
       1BEF 'CF
                                                             CALLS
                                                                                                                       ; do the assign/dassgn tests
                                                             RET
                                                                                                                       ; return to user
                                                  20$:
       1AF2'CF
                     00
                            FB
                                                             CALLS
                                                                         #0, W^ERLBUF_DUMP
                                                                                                                       : dump any errors
                                                     test kernel mode
                                                             NEXT_TEST
                                  0108
                                   0108
                                                  STP3:
       0004 °CF
                     03
00
01
                                                           MOVAL WASSIGN, WASERV NAME
MOVAL WASSIGN, WASERV NAME
MOVAL WASSIGN, WASERV NAME
SCMKRNL S BA10$
BRW 20$
                                                                                    #3, W^CURRENT_TC
                                                                         MOVL
                            DD FB DE DE DE
       1385°CF
0307°CF
0159°CF
0307°CF
                                                                                                                       ; set service name
                                            set the mode
                                                                                                                       ; set service name
                            31
                  000A
                                                                                                                       ; skip the routine
                                                 105:
                          0000
                                                              . WORD
                            DD
                                                                         #PSL$C_KERNEL
#1,W^ASSDAS_CHK
                     00
                                                             PUSHL
                                                                                                                      : push the access mode
: do the assign/dassgn tests
       1BEF 'CF
                                                             CALLS
                             04
                                                             RET
                                                                                                                       ; return to user mode
                                                  20$:
0159'CF 01FE'CF
                                                             CALLS #0, WERLBUF_DUMP
                                                                                                                      ; report any errors ; reset the mode
                                                                         W^UM, W^MODE
                                                             MOVAL
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 ALLOC AND DALLOC TESTS (SUCC S.C.) 16-SEP-1984 04:29:37
                                                                                                                                                                                                                                                                                                                             VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                         468
469
470
                                                                                                                                                                        .SBTTL ALLOC AND DALLOC TESTS
                                                                                                                                               $ALLOC and $DALLOC tests
                                                                                                                                               test user mode
                                                                                                                                                                      NEXT_TEST
                                                                                                                                       STP4:
                                                          04
00
01
                    0004 'CF
                                                                             DODBE
                                                                                                                                                                                                     MOVL
                                                                                                                                                                                                                                    #4, W^CURRENT_TC
                                                                                                                                                                     MOVAL W^MCORRENT_
PUSHL #0
CALLS #1, W^REG_SAVE
MOVAL W^ALLOC, W^SERV_NAME
MOVAL W^UM, W^MODE
$CREMBX_S CHAN = W^MBCHAN, -
LOGNAM=W^MBNAM, -
1385'CF
0307'CF 00
0159'CF 01
                                      0038'CF
                                                                                                                        ; set service name
                                                                                                                                                                                                                                                                                                                                 ; set the mode
                                                                                                                                                                      PRMFLG=#1

$DASSGN_S CHAN=W^MBCHAN
PUSHL #PSL$C USER
CALLS #1,W^ACLDAL_CHK
CALLS #0,W^ERLBUF_DUMP
                                                                                                                                                                                                                                                                                                                                 : create an allocatable device
: make it allocatable
                                                          03
01
00
                                                                             DD
FB
FB
                                                                                                                                                                                                                                                                                                                                        push the mode
                   1B5C'CF
                                                                                                                                                                                                                                                                                                                                        check the services
                                                                                                                                                                                                                                                                                                                                  : dump any errors
                                                                                                                                               test super mode
                                                                                                                                                                      NEXT_TEST
                                                                                              0197
                                                                                             0197
                                                                                                                                       STP5:
                                                         05
00
01
                                                                                                                                                                                                                                    #5, W^CURRENT_TC
                    0004 °CF
                                                                                                                                                                                                     MOVL
                                                                             DO DE DE DE DE DE
                                                                                                                                                                                                    PUSHL #0
CALLS #1, WAREG SAVE
WALLOC, WASERV_NAME
                   1385 'CF
0307'CF
0159'CF
                                      0038
020A
                                                                                                                         492
493
495
496
498
499
500
                                                                                                                                                                      MOVAL
                                                                                                                                                                                                                                                                                                                                 ; set service name
                                                                                                                                                                                                     WASM, WAMODE
                                                                                                                                                                                                                                                                                                                                 : set the mode
: do the super mode tests
                                                                                                                                                                      MOVAL
                                                                                             01B1
01B3
                                                                                                                                                                      CHMS
                                                                                                                                               test exec mode
                                                                                                                                                             MOVAL WALLOC, WASERV_NAME
WORD

WORD

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

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#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURRENT_TC

#6, WACURR
                                                                                                                                                                      NEXT_TEST
                                                                                                                                       STP6:
                                                          06
00
01
                   0004 °CF
                                                                             DOBBEE
                    1385'CF
                                                                                              01BA
0307'CF
0159'CF
                                                                                              01BF
                                                                                                                         501
502
503
504
506
507
508
                                                                                                                                                                                                                                                                                                                                 : set service name
                                                                                                                                                                                                                                                                                                                                 ; set the mode
                                                                                                                                                                                                                                                                                                                                 get to exec mode skip the routine
                                                                             11
                                                           OA
                                                                                                                                       105:
                                                                                              01DB
                                                                       0000
                                                                                              01DB
                                                                                                                                                                         . WORD
                                                                                              OIDD
                                                                                                                                                                       PUSHL
                                                                                                                                                                                                      #PSL$C_EXEC
                                                          01
                                                                              DD
                                                                                                                                                                                                                                                                                                                                 ; push the mode
                                                                              FB
04
                                                                                                                                                                                                     #1, W^ACLDAL_CHK
                   1B5C'CF
                                                                                              01DF
                                                                                                                                                                        CALLS
                                                                                                                                                                                                                                                                                                                                 : do the tests
                                                                                                                                                                                                                                                                                                                                 ; return to user mode
```

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```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 ALLOC AND DALLOC TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                          510 20$:
511 :+
512 :
513 : te:
514 :-
516 :-
                                                                                                  ; test kernel mode
                                                                                                              MOVAL WALLOC WASERV NAME

SCMKRNL S BA108

BRB 208
                                                                                                                  NEXT_TEST
                                                                                                  STP7:
                                     0004'CF 07
00
1385'CF 01
CF 0038'CF
CF 0228'CF
                                                                   DOBBEE
                                                                                          517
518
519
520
521 10$:
523
524
525
526
20$:
527
528
529
530
                                                                                                                                                                                                     ; set the service name
                                                                                                                                                                                                     ; set the mode
; get into kernel mode
; skip the routine
                                                                   11
                                                          OA
                                                               0000
DD
FB
04
                                                                                                                    WORD
                                                                                                                   PUSHL
CALLS
RET
                                                         00
                                                                                                                                   #PSL$C_KERNEL
#1,W^ACLDAL_CHK
                                                                                                                                                                                                     ; push the mode ; do the tests
                                     1B5C'CF
                                                                                                                                                                                                     : return
                                                                                                                  $ASSIGN_S DEVNAM=W^MBNAM,-
CHAN =W^MBCHAN ; get the device back
$DELMBX_S CHAN =W^MBCHAN ; and get rid of it!
MOVC5 #0,W^GETBUF,#0,#132,W^GETBUF+8 ; clean up the buffer
                                    01D3'CF 00
01DB'CF
      0084 8F
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 CANCEL TESTS 5-SEP-1984 04:29:37
                                                                        .SBTTL CANCEL TESTS
                                                              SCANCEL tests
                                                              test EF wait IO cancellation with _S form
                                                                        NEXT_TEST
                                                           STP8:
        0004 °CF
                                 DODBE
                                                                                                   #8, W^CURRENT_TC
                                                                                      PUSHL
                                                                        MOVAL W^CANCEL, W^SERV_NAME

MOVAL W^CANCEL, W^SERV_NAME

MOVAL W^UM, W^MODE

$CREMBX_S CHAN = W^CHAN1, -
LOGNAM = W^MBNAM

MOVZWL W^CHAN1, W^QIOP+QIO$_CHAN

MOVZWL W^CHAN1, W^CANC+CANCEL$_CHAN
                                                                                                                                            ; set service name
                                                                  MOVZWL W^CHAN1, W

SQIO G W^QIOP

SCANCEL S CHAN=W^CHAN1

FAIL_CHECK SS$_NORMAL

PUSHL #SS$_/

CALLS #1, W

S EFN=#31
00F9'CF
                                 30
                                                                                                                                              set the channel up
                                                                                                                                               in QIO and CANCEL
                                                                                                                                              do a read on the MBX
                                                                                                                                            ; cancel the IO
                                                                                                                                            : check for success
                                                                                                   #SS$_NORMAL
#1,WREG_CHECK
                                 DD
FB
        138F 'CF
                                                                                                                                           ; wait for IO completion ; check IO status block
                                 FB
        131B'CF
                         00
                                                              test EF wait IO cancellation with _S form
                                                                        NEXT_TEST
                                                          STP9:
        0004 °CF
                         09
00
01
                                 DO
DD
FB
                                                                     PUSHL
CALLS #1, W REG
SQIO G W QIOP
SCANCEL G W CANC
FAIL_CHECK SSS_NORMAL
PUSHL #SSS_NORMAL
CALLS #1, W REG_CHECK
                                                                                                   #9.W^CURRENT_TC
                                                                                      MOVL
        1385 CF
                                                                                                                                           ; do a read on the MBX
; try G
; check for success
                                 DD
FB
        138F 'CF
                                                                        SWAITFR S EFN=#31
CALLS #0, W CAN_CHECK
                                                                                                                                           ; wait for IO completion ; check the IO status block
                                 FB
        131B'CF
                                                              test AST wait IO cancellation with _S form
                                                                        NEXT_TEST
                                                           STP10:
                                 DODE
        0004°CF
                                                                                      MOVL
                                                                                                   #10, W^CURRENT_TC
                                                                                     PUSHL #0
CALLS #1, WAREG SAVE
WATONC, WAGTOP+GIOS_ASTADR
0105'CF 1309'CF
                                                                        MOVAL
                                                                                                                                           ; set AST address
```

SATSSS01 V04-000			- SA	TS SYST	EM SERVICE 1	TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 Page [UETPSY.SRC]SATSSS01.MAR;1	16 (2)
	138F'CF	01 01	DD FB	02EF 02F8 0304 0304 0306 0308	570 571 572	\$QIO_G W^QIOP \$CANCEL_S CHAN=W^CHAN1 FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1,W^REG_CHECK \$HIBER_S	; issue read on the MBX ; cancel it ; check success ; wait for AST	
				0312 0312 0312 0312 0312 0312	573 574 :+ 575 : test 577 : 578 :- 579	AST wait IO cancellation with _G form NEXT_TEST		
	0004°CF 1385°CF	0B 00 01	DO DD FB	0312 0312 0317 0319 031E 0327	STP11: 580 581 582	MOVL #11, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE \$QIO_G W^QIOP \$CANCEL_G W^CANC FAIL_CHECK SS\$_NORMAL	; issue read to the MBX ; cancel it	
OOFD'CF	138F 'CF 0111'CF 00000031 0105	01 01 .8F	DD FB DO DO D4	0330 0330 0332 0337 033E 0343 0340	582 583 584 585 586 587	FAIL_CHECK SS\$ NORMAL PUSHL #SS\$ NORMAL CALLS #1, W*REG_CHECK SHIBER_S MOVL #1, W*QIOP+QIOS P2 MOVL #10\$ READVBLK, W*QIOP+QIOS_FUNC CLRL W*QIOP+QIO\$_ASTADR SDASSGN_S CHAN = W*CHAN1	; check for success : wait for AST	

04

SATSSS01	- SATS SYSTEM SERVICE GETCHN TESTS	TESTS (SUCC S.C.) 16-SEP-1984 00:44:47	VAX/VMS Macro V04-00 Page 18
V04-000		5-SEP-1984 04:29:37	[UETPSY.SRC]SATSSS01.MAR;1 (2)
138F'CF 01 1287'CF 01 56 036E'CF 00 1287'CF 01 1287'CF 01 035E'CF 00 036E'CF 036E'CF	0411 632 041A 633 DD 041A FB 041C DD 0421 634 FB 0423 635 DE 0428 636 DD 042D 637 FB 042F 638 2C 0434 639 043D 2C 0440 640	SGETCHN G W^GETC FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1,W^REG_CHECK PUSHL #0 CALLS #1,W^BUF_CHECK MOVAL W^PB+8,R6 PUSHL #0 CALLS #1,W^BUF_CHECK MOVC5 #0,W^PB+8,#0,W^PL,W^PB+8 MOVC5 #0,W^SB+8,#0,W^SL,W^SB+8	; try G form ; check for success ; push expected IO status ; check the returned buffer ; check the primary buffer ; push expected IO status ; for failures ; init the buffers

SA

SA

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 INPUT AND OUTPUT TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                        679
680
681
682
683
                                                                                                                .SBTTL INPUT AND OUTPUT TESTS
                                                                                                    $INPUT and $OUTPUT tests
                                                                                                    try $OUTPUT with small transfer and a local EFN
                                                                                                                NEXT_TEST
                                                                                                STP16:
                                                       10
00
01
                                   0004 °CF
                                                                  DO DD FB DE DE
                                                                                                                                                #16,W^CURRENT_TC
                                                                                                                               PUSHL #0

CALLS #1, W^REG SAVE

W^OUTPUT, W^SERV_NAME

W^UM, W^MODE

CHAN=W^MBCHAN, -

FUNC=#IO$ READVBLK, -

P1 = W^GETBUF+8, -
                                             0067'CF
01FE'CF
                                                                                                                MOVAL
                                                                                                                                                                                                ; set service name
                          0159'CF
                                                                                                                MOVAL
SQIO_S
                                                                                                                                                                                                : set the mode
                                                                                                                                P2 =#1
                                                                                                                                                                                                ; let the output finish
                                                                                                                SOUTPUT CHAN=W^MBCHAN,-
LENGTH=#1,-
                                                                                                              LENGTH=#1,-
BUFFER=W^TEST_DATA,-
IOSB=W^STAT,-
EFN=#2

FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1,W^REG_CHECK
MOVAL W^GETBUF+8,R6
MOVAL W^TEST_DATA,R7
MOVL #1,R8
MOVL #1016!SS$_NORMAL,W^STAT1
PUSHL #1016!SS$_NORMAL
CALLS #1,W^BUF_CHECK
CLRL W^GETBUF+8
                                                                                                                                                                                               ; try output, small, & local EFN ; check for success
                                                                  FBEEDOOD BA
                                                                                                                                                                                               ; set input address
; set good data address
; set the byte count
; set dummy status
; set expected IO status
                                                                                        700
701
702
703
704
705
706
707
708
710
711
712
                  0071 °CF
                                      00010001
                                      00010001
                                                                                                                                                                                                check the results init the buffer
                                             CF 01
01DB'CF
                                                                                                    test $INPUT with small transfer and local EFN
                                                                                                                NEXT_TEST
                                                                                                STP17:
                                                       11
00
01
                                                                  DO DD FB DE
                                    0004 CF
                                                                                                                                                #17, W^CURRENT_TC
                                                                                                                                PUSHL
                                                                                                                                CALLS #1, W^REG_SAVE
W^INPUT, W^SERV_NAME
CHAN=W^MBCHAN, =
FUNC=#10$_WRITEVBLK, -
P1 =W^TEST_DATA, -
                         0307'CF 0053'CF
                                                                                                                MOVAL
SQIO_S
                                                                                                                                                                                                : set service name
                                                                                                                               P2 =#1
CHAN=W^MBCHAN,-
LENGTH=#1,-
BUFFER=W^GETBUF+8,-
IOSB=W^STAT,-
EFN=#2
                                                                                                                                                                                                ; put data there to read
                                                                                                                SINPUT
                                                                                                                                                                                                ; try input, small, & local EFN
                                                                                                                FAIL_CHECK SSS_NORMAL
                                                                                                                                                                                                : check for success
```

```
(SUCC S.C.) 16-SEP-1984 00:44:47
5-SEP-1984 04:29:37
SATSSS01
V04-000
                                                         - SATS SYSTEM SERVICE TESTS
                                                         INPUT AND OUTPUT TESTS
                                                                                                             PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
#1a16!SS$_NORMAL
#1, W*BUF_CHECK
W*GETBUF+8
#132,R8
                                                          DB DB 00
                                138F 'CF
00010001
                                                                                                   PUSHL
CALLS
CLRL
                                                 8F
01
                                                                              724
725
726
727
728
730
731
733
                                                                                                                                                                          ; set expected IO status ; check transfered data
                                 00000084
                                                                                                                                                                             init the buffer
                                                                                                   MOVL
                                                                                                                                                                          ; set new byte count
                                                                                        test $OUTPUT with large transfer and common EFN
                                                                                                   NEXT_TEST
                                                                  05DC
                                                                                     STP18:
                                                 12
00
01
                                0004 °CF
                                                          DO DB DE
                                                                                                                               #18, W^CURRENT_TC
                                                                                                                 PUSHL
                                                                                                   MOVAL WOUTPUT, WESERV NAME
SASCEFC S #65, WEFCHAM
SQIO_S CHAN=WEMBCHAN, -
                       0307'CF 0067'CF
                                                                              735
736
737
738
738
740
742
743
745
                                                                                                                                                                          ; set service name
                                                                                                                                                                          : make EFN 65
                                                                                                                 FUNC=#IO$ READVBLK,-
P1 =W^GETBUF+8,-
P2 =#132
                                                                                                                                                                          ; let the $OUTPUT complete
                                                                                                   SOUTPUT CHAN=W^MBCHAN,-
                                                                                                                  LENGTH=#132,-
                                                                                                                 BUFFER=W^TEST_DATA,-
IOSB=W^STAT,-
EFN=#65
                                                                                                                                                                          ; try output, large with common EFN
                                                                                                  FAIL_CHECK SS$_NORMAL

PUSHL #SS$_NORMAL

CALLS #1,W*REG_CHECK

MOVL #132a16!SS$_NORMAL,W*STAT1 ; set dummy status

PUSHL #132a16!SS$_NORMAL ; set expected IO s

CALLS #1,W*BUF_CHECK ; check the buffer

MOVC5 #0,W*GETBUF+8,#0,#132,W*GETBUF+8 ; init the buffer
                                                                                                                                                                          : check for success
                                                          FB DD DD FB C
                                                 8F
01
00
                                                                              746
747
748
749
               0071°CF
                                  00840001
                                                                                                                                                                          ; set expected IO status
                                00840001
1287 CF
                               O1DB'CF OO
     0084 8F
                                                                  0676
                                                                              750 :+
751 :
752 : :
753 : -
754 :-
                                                                                         test $INPUT with large transfer and common EFN
                                                                                                   NEXT_TEST
                                                                                     STP19:
                                                 13
00
01
                                0004°CF
                                                                                                                               #19, W^CURRENT_TC
                                                          DD
FB
                                                                                                                 PUSHL
                                                                                                                 CALLS #1, W^REG_SAVE
W^INPUT, W^SERV_NAME
CHAN=W^MBCHAN,=
FUNC=#10$ WRITEVBLK,-
P1 =W^TEST_DATA,-
P2 =#132
                       0307'CF 0053'CF
                                                                              756
757
758
759
761
762
763
765
                                                                                                   MOVAL
                                                                                                                                                                          : set service name
                                                                                                   $QIO_S
                                                                                                                                                                          ; put data out to read
                                                                                                                 CHAN=WAMBCHAN,-
LENGTH=#132,-
                                                                                                   SINPUT
                                                                                                                 BUFFER=W^GETBUF+8,-
IOSB=W^STAT,-
EFN=#65
                                                                                                                                                                          ; try input, large with common EFN
```

SAT

SAT

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 910 TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
                                                                   .SBTTL QIO TESTS
                                                         $QIO tests
                                                         test local EFN = 3, IO$_WRITEVBLK, _S, 1 byte transfer
                                                                  MOVL TEST
                       01
                                                                                                                                : set byte count
                                                      STP20:
       0004 'CF
                               DODE
                                                                                           #20, W^CURRENT_TC
                                                                               PUSHL
0307'CF 006E'CF
                                                                                           #1, WAREG_SAVE
                                                                  MOVAL WAGIO, WASERV_NAME

$QIO_S EFN =#3,-
CHAN=WAMBCHAN,-
FUNC=#IO$_WRITEVBLK,-
IOSB=WASTAT,-
P1 =WATEST_DATA,-
P2 =#1

FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, WAREG_CHECK
                                                                                                                                ; set service name
                                                                                                                               : try S local bc = 1 writevblk
: check success
       138F 'CF
                                                         test local EFN = 31, IO$_READVBLK, _G, 1 byte transfer
                                                                  NEXT_TEST
                                                      STP21:
       0004 °CF
                              DODB4
                                                                                           #21, W^CURRENT_TC
                                                                               PUSHL
                                                                               CALLS #1, WAREG SAVE
                                                                CLRL WAGIUP SQIO G WAGIOP FAIL CHECK SS$ NORMAL PUSHL #SS$ NORMAL CALLS #1, WREG_CHECK
               0105 CF
                                                                                                                                 ; disable AST's
                                                                                                                                : try G local bc = 1 readvblk
: check success
                              DD
       138F 'CF
                                                                  SWAITFR S EFN=#31
SWAITFR S EFN=#31
PUSHL #1016!SSS NORMAL
CALLS #1, W BUF CHECK
CLRL W GETBUF #8
                                                                                                                                   wait for the writevblk
                                                                                                                                 ; wait for the readvblk
; set expected IO status
       00010001 8F
1287 CF 01
01DB CF
58 02
                              DB 40
                                                                                                                                   check the results init the buffer
                                                                   MOVL
                                                                                                                                 ; set byte count
                                                         test common EFN = 65, IO$_READLBLK, _S, 2 byte transfer
                                                                  NEXT_TEST
                                                      STP22:
       0004 °CF
                                                                                           #22,W^CURRENT_TC
                                                                              MOVL
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                                                                  VAX/VMS Macro V04-00
EUETPSY.SRCJSATSSS01.MAR;1
                            1385°CF
                                                                                                  CALLS #1, WAREG_SAVE
                                           01
                                                 FB
                                                                                      $QIO_S
                                                                                                   CHAN=W^MBCHAN, -
                                                                                                   FUNC=#10$ READLBLK,-
IOSB=W^STAT,-
P1 =W^GETBUF+8,-
                                                                                      FAIL_CHECK SSS_NORMAL
                                                                                                                                                    : try common EFN READLBLK : check success
                                                                                                               #SS$ NORMAL
#1, WREG_CHECK
                                                  DD
                                           01
                            138F 'CF
                                                                  817 ;+
818 ;
819 ;
820 ;
                                                                             test common EFN = 92, IO$_WRITELBLK, _G, 2 byte transfer
                                                                                      NEXT_TEST
                                                                                               CALLS #1, W^REG_SAVE
#92, W^QIOP+QIO$ EFN
#10$ WRITELBLK, W^QIOP+QIO$_FUNC ; set FUNC
W^TEST_DATA, W^QIOP+QIO$_P1 ; set trans
#2, W^QIOP+QIO$_P2
W^QIOP
ECK_SS$ HOOM
                                                                          STP23:
                            0004 °CF
                                                  DO DE DO DE DO
                            1385 CF
0000005C
             00F5 CF
                                                                                       MOVL
                            00FD'CF
CF 0250'
                                                                                       MOVL
                    010D°CF
                                                                                       MOVAL
                                                                                                                                                       set transfer address
                            0111'CF
                                                                                      MOVL
                                                         07D1
                                                                                                                                                       set byte count
                                                                                      $QIO_G
                                                                                                                                                    ; try common EFN writelblk
                                                                                      FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
                                                         07DF
                                                                                                                                                     : check success
                                                  DD
FB
                           138F 'CF
                                                                                      SWAITFR S EFN=#65
SWAITFR S EFN=#92
PUSHL #2016!SSS_NORMAL
CALLS #1, W^BUF_CHECK
CLRL W^GETBUF +8
                                                                                                                                                       wait for readlblk wait for writlblk
                            00020001 8F
287 CF 01
                                                  DB 04
                                                                                                                                                       set expected IO status
                                                                                                                                                       check transfer
                             01DB 'CF
00000084 8F
                                                                                                                                                       init the buffer
                                                                    834
835
836
837
838
839
                                                                                       MOVL
                                                                                                                                                       set byte count
                                                                             test AST, IOS_WRITEPBLK, _S, 132 byte transfer
                                                                                      NEXT_TEST
                                                                          STP24:
                                           18
00
01
                                                  DO
DD
FB
                           0004 °CF
                                                                                                               #24, W^CURRENT_TC
                                                                                                   PUSHL
                           1385 'CF
                                                                                                               #1, WAREG_SAVE
                                                                                      $010_$
                                                                                                  CHAN=W^MBCHAN, -
                                                                                                   FUNC=#10$ WRITEPBLK,-
10SB=W^STAT,-
                                                                                                   ASTADR=WAST1 .-
                                                                                                   ASTPRM=#1 .-
                                                                                                       =W^TEST_DATA,-
                                                                                                                                                       try AST writepblk
                                                                                                                                                    ; save the QIO status
; let things get checked
; reset the QIO status
; before the AST's start
                                                   DD
                                                                                      $SETAST_S ENBFLG=#0
                                           50 8ED0
```

SAT VO4

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                                                                                                                                                                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                                                852
853
                                                                                                                                                                                                                                                                                                                        : to fly!
: check success
                                                                                                                                                                                      FAIL_CHECK SSS_NORMAL
                                                                                           01
                                                                                                           DD
                                                                                                                                                                                                                 PUSHL
                                                                                                                                                                                                                                          #SS$ NORMAL
#1, W*REG_CHECK
                                                          138F 'CF
                                                                                                                                                                  test AST, IOS_READPBLK, _G, byte count 132
                                                                                                                                                                                      NEXT_TEST
                                                                                                                                                             STP25:
                                                          0004°CF
                                                                                                                                                                                                        CALLS #1, W^REG_SAVE
#10$_READPBLK, W^QIOP+QIO$_FUNC
W^AST2, W^QIOP+QIO$_ASTADR
#2, W^QIOP+QIO$_ASTPRM
W^GETBUF+8, W^QIOP+QIO$_P1
#132, W^QIOP+QIO$_P2
W^QIOP
ECK_SS$_NORM
                                                                                                                                                                                                                                           #25, W^CURRENT_TC
                                                                                                                                                                                                                 MOVL
                                                                                           00
                                                                                                           DEBODEODEO
                                          0105 CF 06 0C
                                                                                                                                                860
861
862
863
864
865
866
                                                                                                                                                                                       MOVL
                                                                                                                                                                                                                                                                                                                               set FUNC
                                                                                                                                                                                       MOVAL
                                                                                                                                                                                                                                                                                                                               set ASTADR
                                                             0109'CF 02
CF 01DB'CF
00000084 8F
                                                           0109°CF
                                                                                                                                                                                       MOVL
                                                                                                                                                                                                                                                                                                                               set ASTPRM
                            0111'CF 0000
                                                                                                                                                                                        MOVAL
                                                                                                                                                                                                                                                                                                                              set read buffer adr
                                                                                                                                                                                       MOVL
                                                                                                                                                                                                                                                                                                                               set byte count
                                                                                                                                                                                      SQIO G WAGIOP
FAIL CHECK SSS NORMAL
                                                                                                                                                                                                                                                                                                                               try AST delivery _G
                                                                                                                                                                                                                                                                                                                              check success
                                                                                           01
                                                                                                           DD
                                                                                                                                                                                                                 PUSHL
                                                                                                                                                                                                                                      #SS$_NORMAL
#1,WREG_CHECK
                                                          138F 'CF
                                                                                                                                                                                      $SETAST_S ENBFLG=#1 ; let all heck breads shallfress end the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the company of the compa
                                                                                                                                               867
868
869
870
                                                                                                                                                                                                                                                                                                                                let all heck break loose
                                                                                                                                                                                                                                                                                                                          : let the dust settle
; set expected IO status
                                                             00840001 8F
287'CF 01
                                                                                                           DD
FB
2C
                                                         OIDB'CF OO
         0084 8F
                                                                                                                         08BE
                                                                                                                                               872
873 :+
874 :-
875 :-
                                                                                                           31
                                                                                     0046
                                                                                                                                                                                                                 NEXT
                                                                                                                                                                                                                                                                                                                         ; skip over AST routines
                                                                                                                         08CD
                                                                                                                                                                  service writelblk AST
                                                                                                                                              878 AST1:
                                                                                                     001C
                                                                                                                                                                                         WORD ^M<R2,R3,R4>
                                                                                                                         08CF
                                                                                                                                                880
                                                                                                                                                                                      NEXT_TEST
                                                                                                                         08CF
                                                                                                                                                            STP26:
                                                                                                                         08CF
                                                          0004°CF
                                                                                                                                                                                                                                           #26, W^CURRENT_TC
                                                                                                           DD FB D13 DD DF FB
                                                                                                                                                                                                                 PUSHL
                                                                                                                                                                                                                                          #1, WAREG_SAVE
                                                          1385°CF
                                                                                           01
                                                                                                                                                                                                                 CALLS
4(AP) #1
                                                                                04
                                                                                                                                                                                       CMPL
                                                                                                                                                                                                                                                                                                                              right AST parameter?
br if yes
                                                                                                                                                                                       BEQL
                                                                                                                                                                                                                  10$
                                                                                                                                                                                       PUSHL
                                                                                                                                                                                                                 4(AP)
                                                                                                                                                                                                                                                                                                                              push received
                                                                                                                                                                                       PUSHL
                                                                                                                                                                                                                                                                                                                              push expected
                                                                          0193'CF
                                                                                                                                                                                                                                                                                                                         : push string variable ; print the failure
                                                                                                                                                                                       PUSHAL
                                                                                                                                                                                                                W^ASTEXP
                                                          1301'LF
                                                                                                                                                                                                                 #3, W^PRINT_FAIL
                                                                                                                                                                                       CALLS
                                                                                                                                                           105:
                                                                                                                                                888
889
890
891
892
893
                                                                                                                                                                                       RET
                                                                                                                                                                                                                                                                                                                        ; return
                                                                                                                                                                   test the readlblk AST
```

SAT VO4

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
                                                                                                                     VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                        894 AST2:
895
896
                    001C
                                                           .WORD ^M<R2,R3,R4>
                                                          NEXT_TEST
                                             STP27:
0004 °CF
                       #27,W^CURRENT_TC
                                                                      PUSHL
1385°CF
                                                                                  #1, WAREG_SAVE
          04
                                                                       4(AP),#2
                                                                                                                          right AST parameter?
br if yes
                                                          BEQL
                                                                       10$
                                                          PUSHL
                                                                      4(AP)
                                                                                                                          push received
                                        900
901
902
903 10$:
                                                                      WASTEXP
                                                                                                                         push expected push string variable
                                                          PUSHL
                                                          PUSHAL
13D1 'CF
                                                                      #3, W^PRINT_FAIL
                                                          CALLS
                                                                                                                       : print the error
                                       904
905 ;+
906 ;
907 ; test
908 ;-
910 NEXT:
                             0913
0913
0913
0913
0913
0913
0913
                                                          RET
                                                                                                                       : return
                                             test 10$_SETMODE, _S, READATTN
                                                          NEXT_TEST
                             0913
                                              STP28:
0004 °CF
                       DO
DD
FB
                                                                      MOVL
                                                                                  #28, W^CURRENT_TC
               00
                                                                      PUSHL
                                                                                  #1, WAREG_SAVE
1385 CF
                                                                      CALLS
                                       912
913
914
915
916
917
918
                             091F
091F
                                                                      CHAN=W^MBCHAN, -
                                                          $Q10_S
                                                                      FUNC=#10$_SETMODE! 10$M_READATTN,-
                                                                      EFN =#2,-
P1 =W^AST3,-
                                                         P2 =#3,-
P3 =#PSL$C_USER
FAIL_CHECK SS$_NORMAL
                                                                                                                       : try S SETMODE
: check success
                                                                                #SS$_NORMAL
#1,WREG_CHECK
                                                                      PUSHL
                       DD
FB
138F 'CF
                                                         SWAITFR S EFN=#2
CLRL W^QIOP+QIOS_ASTADR
CLRL W^QIOP+QIOS_ASTADR
                                                                                                                       : let it finish
: disable AST's for this one
                                                         CLRL WAGIOP+GIOS AS
CLRL WAGIOP+GIOS AS
SSETAST S ENBFLG=#0
$QIO G WAGIOP
FAIL CHECK SSS NORMAL
        0105'CF
0109'CF
                       D4
                                                                                                                       : hold back on the reins
: force the READATTN AST
: check success
                                                                                 #SS$_NORMAL
#1,WREG_CHECK
                                                                      PUSHL
                       DD
FB
               01
138F 'CF
                                                          SSETAST_S ENBFLG=#1
BRW NEXT1
                                                                                                                       : let it fly
; skip over AST routine
                       31
            0045
                                                 service READATTN AST
                                             AST3:
                                                           WORD
                    0000
                                                          NEXT_TEST
                                              STP29:
```

SAT

Page

SATSSS01 V04-000

28

PUSHL CALLS 4(AP),#4 AC OE AC is it the right one? br if it's OK save received BEQL 978 979 981 983 983 986 986 987 04 PUSHL 4(AP) PUSHL WASTEXP save expected 0193'CF PUSHAL save string variable #3,WAPRINT_FAIL 13D1'CF CALLS print the error 105: MOVL #10\$ READVBLK, W^QIOP+QIO\$_FUNC MOVAL W^GETBUF+8, W^QIOP+QIO\$_P1 \$QIO_G W^QIOP FAIL_CHECK SS\$_NORMAL DO 010D'CF 01DB'CF set new function code set new read address ; eat the write pending : check for success PUSHL #SS\$ NORMAL CALLS #1, WREG_CHECK \$WAITFR_S EFN=#92 DD FB 01 138F 'CF 988 989 990 ;+ 991 ; 992 ; test 993 ; 994 ; This 995 ; alloc 996 ; 997 ;-998 NEXT2: ; and wait for it to digest 04 ; bail out test IO\$_SETCHAR, _S This function is not tested because of the lack of a device that is allocatable and char. setable on the minimum configuration. 0A86 0A86

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 910 TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                        1002
1003
1004
1005
                                                                                   test IOS_WRITEOF, G
                                                                                              NEXT_TEST
                                                                                STP32:
                                               20
00
01
                              0004 °CF
                                                                                                           MOVL
                                                                                                                        #32, W^CURRENT_TC
                                                       DD
                                                                                                           PUSHL
                              1385 'CF
                                                                                                                        #1, WAREG_SAVE
                                                              0A92
0A92
0A92
0AAF
                                                                        1006
1007
1008
1009
                                                                                                           CHAN=W^MBCHAN, -
                                                                                              SQIO_S
                                                                                                           FUNC=#10$_WRITEOF,-
                                                                                                           EFN =#10
                                                                                                                                                                 ; issue the WRITEOF
                                                                                             FAIL_CHECK SSS_NORMAL
                                                                                                                                                                 : check success
                                                                                             PUSHL #SS$_NORMAL

CALLS #1, W*REG_CHECK

MOVZWL W*MBCHAN, W*QIOP+QIO$_CHAN

MOVL #IO$_READVBLK, W*QIOP+QIO$_FUNC

MOVAL W*GETBUF+8, W*QIOP+QIO$_P1

MOVL #2, QIOP+QIO$_P2

$QIO_G W*QIOP

FAIL_CHECK SS$_NORMAL

PUSHL #SS$_NORMAL
                                                              0AB1
0AB6
0ABD
0AC2
0AC9
0AD0
                                                       FBC DO DE DO
                                                                       1010
1011
1012
1013
                     00F9'CF
                                      031E'CF
                                                                                                                                                                   reset the channel
                              OOFD'CF
                                                                                                                                                                   set for the read
                     010D'CF 01DB
                                                                                                                                                                   set dummy address
set any byte count
                       00000111'EF
                                                                        1014
                                                                                                                                                                   issue a read
                                                              OAD9
                                                                                                                                                                   check success
                                                       DD
                                                                                                           PUSHL
                                                                                                                     #SS$ NORMAL
#1,WREG_CHECK
                                                              OAD9
                                               01
                              138F 'CF
                                                              OADB
                                                                                              SWAITER S EFN=#92
CMPL WASTAT1,#SSS_ENDOFFILE
                                                                       1016
                                                              OAEO
                                                                                                                                                                   wait for completion
               00000870 8F
                                                       D1
13
                                                              OAED
                                                                                                                                                                   right status code?
br if OK
                                                              OAF 6
OAF 8
                                                                                                           10$
                                                                        1018
                                                                                              BEQL
                                                       DD
DD
DF
                                                                        1019
                                                                                              PUSHL
                                                                                                          W^STAT1
                                                                                                                                                                    push received
```

#SS\$ ENDOFFILE

#3, W^PRINT_FAIL

SASSIGN S W^DISK, W^CHAN1

STRNLOG_S LOGNAM = W^TOPSYS, RSLLEN = W^TOPSYS_DIR, RSLBUF = W^TOPSYS_DIR, -

DSBMSK = #6 #SS\$_NOTRAN,RO

WATOPSYS_DIR

Start testing disk files. We first want to find the FID of [SYSTEST], which may be in a top level system directory. Save that FID as the DID for further testing.

#33,W^CURRENT_TC

push expected

push string variable print the failure

assign the disk channel

...system directory... ...defined system-wide

If there's no translation...

...we have no top level dirs

... or the trans is null ...

See if there isa top level...

PUSHL

CALLS

PUSHAL

test IO\$_ACCESS, _G

NEXT_TEST

CMPW

BEQL

TSTW

BEQL

MOVL

PUSHL

10\$

00000870

13D1'CF

0004 °CF

1385 CF

50

0182

0AF C 0B02 0B06

OBOB

0B0B OBOB **0B0B**

OBOB

080B 080B 080B 080B

OBOB

0B0B 0B0B 0B0B

0B0B

0B10 0B12 0B17 0B28 0B28 0B28 0B41 0B46 0B46

DD FB

01

CF

04E4

105: ;+

STP33:

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                                                                           VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                       #^M<R2,R3,R4,R5,R6>
W^TOPSYS_DIR,R6
W^DOT_DIR_SEMI,W^DOT_DIR_SEMI+8,-
TOPSYS_DIR+8(R6)
W^DOT_DIR_SEMI,W^TOPSYS_DIR
#^M<R2,R3,R4,R5,R6>
EFN=#16,-
CHAN=W^CHAN1,-
FUNC=#10$_ACCESS.-
                                                      BB 30 28
                                                                                                                                                                Save these over MOVC, etc.
                                                                      1043
10445
10447
10447
1049
1055
1055
1055
1056
                                                            MOVZWL
MOVC3
                                                                                                                                                                Get top level dir name length ; Form a file spec for...
                     04CC CF
                                                                                                                                                                   ... the dir name...
                                                      AO
BA
                     04E4 CF
                                                                                            ADDW2
                                                                                            POPR
                                                                                                                                                                Clean up after MOVC, etc.
                                                                                            SQIOW_S
                                                                                                                                                                Get the top level ...
                                                                                                                                                             : ...system directory FID
                                                                                                         FUNC=#10$ ACCESS,-
                                                                                                             =W^FIBDES
                                                                                                             =#TOPSYS_DIR,-
                                                                                                              =#ATR
                                                                                           FAIL_CHECK SSS_NORMAL
                                                                                                                                                             ; Check success of call...
                                                                                                        PUSHL #SS$ NORMAL CALLS #1, W*REG_CHECK #SS$_NORMAL, W*STAT 20$
                                                      DD FB 12 BB 22 CBA
                             138F'CF
0069'CF
                                              1057
1058
1059
1060
1061
1062
1063
1064
1065
1066
1067
1068
1069
1070
1071
1072
                                                                                                                                                                ...and its results
BR if error occurred
                                                                                            BNEQ
                                                                                                        #^M<R2.R3.R4.R5>
#6,W^FIB+FIB$W_FID,W^FIB+FIB$W_DID; Get the new DID...
#0,#0,#0,#6,W^FIB+FIB$W_FID
#^M<R2.R3,R4,R5>
; Save these over MOVC,
#0,#0,#0,#6,W^FIB+FIB$W_FID
; ...and reset the FID
#^M<R2,R3,R4,R5>
; Restore after MOVC, e
                                                                                            PUSHR
                                                                                                                                                                Save these over MOVC, etc.
             0470 °CF
                                                                                            MOVC3
MOVC5
                             046A'CF
046A CF
                06
                        00
                                 00 8F
                                                                                            POPR
                                                                                                                                                                Restore after MOVC, etc.
                     0493°CF
                                                                                            MOVAL
                                      O4AF 'CF
                                                      DE
                                                                                                         W^SYSTEST_DIR, W^ATR+4
                                                                                                                                                             : Point to SYSTEST dir name
                                                                                                        EFN=#16.-
CHAN=W^CHAN1
                                                                                            SQIO_S
                                                                                                         FUNC=#10$ ACCESS,-
10SB=W^STAT,-
                                                                                                             =W^FIBDES
                                                                                                              =#SYSTEST_DIR,-
                                                                                                             =#ATR
                                                                                                                                                             ; access file to get DID
                                                                                           FAIL_CHECK SSS_NORMAL
                                                                                                                                                             : check success
                                                                                                         PUSHL
                                                                                                                     #SS$_NORMAL
#1,WREG_CHECK
                                                      FB
                             138F 'CF
                                                                      1073
1074
1075
1076
1077
1078
1079
                                                                                           SWAITFR S EFN=#16
CMPL WASTAT, #SS$_NORMAL
BEQL 30$
                                                                                                                                                             ; wait for completion
                                                                                                                                                             ; check IO status
; br if no error
                                      0069'CF
                                                                              20$:
                                                      DD
DD
DF
                                      0069°CF
                                                                                            PUSHL
                                                                                                                                                                push recieved
                                                                                                        W^STAT
                                                                                                        #SS$ NORMAL
W^IOEXP
                                                                                            PUSHL
                                                                                                                                                                push expected
                                     0182'CF
                                                                                            PUSHAL
                                                                                                                                                                push string variable
                                                                       1080
1081
1082
1083
1084
1085
                              13D1'CF
                                                      FB
                                                                                            CALLS
                                                                                                        #3,W^PRINT_FAIL
                                                                                                                                                             ; print the failure
                                                                              30$:
             0470°CF
                                                      28
                              046A'CF
                                                                                            MOVC3
                                              06
                                                                                                        #6,W^FIB+FIB$W_FID,W^FIB+FIB$W_DID; get the new DID
                                                             0C1A
0C1A
0C1A
0C1A
0C1A
                                                                                  test IOS_CREATE, _S
                                                                      1086
1087
1088
1089
1090
1091
                                                                                  After ensuring that we have SYSPRV, set up access control and extension
                                                                              ; After ensuring that we have SYSPRV, set up access control and extension ; control. Set up a test file, superseding any old one which may be present.
                                                             0C1A
0C1A
0C1A
                                                                                            NEXT_TEST
                                                                               STP34:
                              0004°CF
                                                      DO
                                                             OC1A
OC1F
                                                                                                         MOVL
                                                                                                                      #34, W^CURRENT_TC
                                                                                                        PUSHL
```

SATSSS01 V04-000	- SATS SYSTEM SERVICE TEST		VAX/VMS Macro V04-00 Page 31 (3)
1385'CF 01 59 00000000'9F 0051'CF 69	DO 0C43 1093 MC DE 0C4A 1094 MC 0C4F 1095 MC 0C50 1096 PR	CALLS #1, W^REG_SAVE DE TO, 10\$, KRNL, NOREGS VL @#CTL\$GL_PHD, R9 VAL PHD\$Q_PRIVMSK(R9), W^PRIVMASK DE FROM, TO\$ IV ADD, SYSPRV	<pre>; kernal mode to access PHD ; get process header address ; get priv mask address ; get back to user mode ; add SYSPRV priv. ; clear out the FID TL ; set new ACCTL L; set new EXCTL IMCTL; on top of file if there ; set extend size to 15 ; push a dummy parameter</pre>
046A'CF 046E'CF 0466'CF 00000501 8F	D4 0C70 1097 CL B4 0C74 1098 CL D0 0C78 1099 MC	RL W^FIB+FIB\$W_FID RW W^FIB+FIB\$W_FID RVN VL #FIB\$M_WRITE!FIB\$M_NOREAD!-	; clear out the FID
047C'CF 0085 8F 047A'CF 0400 8F 047E'CF 0F	B0 0C81 1101 MC 0C88 1102 B0 0C88 1103 MC D0 0C8F 1104 MC DD 0C94 1105 PL FB 0C96 1106 CA	WW #FIB\$M_EXTEND!FIB\$M_ALCON!= FIB\$M_FILCON, W^FIB\$FIB\$W_EXCT WW #FIB\$M_SUPERSEDE, W^FIB+FIB\$W_N VL #15, W^FIB+FIB\$L_EXSZ	L; set new EXCTL MCTL; on top of file if there ; set extend size to 15 ; push a dummy parameter
1385°CF 01	BO 0C88 1103 MC DO 0C8F 1104 MC DD 0C94 1105 PL FB 0C96 1106 CA 0C9B 1107 \$6 0C9B 1108 0C9B 1109	LLS #1, W^REG_SAVE IO_S EFN = #6,- CHAN = W^CHAN1,- FUNC = #10\$ CREATE! IO\$M CREATE	; save a register snapshot
138F'CF 01	DD OCCS	IOSB = W^STAT,- P1 = W^FIBDES,- P2 = #FILENAME IL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL	; create the file ; check for success
OF 006D'CF 006D'CF 0F	0CC9 1114 \$4 D1 0CD2 1115 CM 18 0CD7 1116 BG DD 0CD9 1117 PU DD 0CDD 1118 PU	CALLS #1, WREG_CHECK AITFR_S EFN=#6 PL WASTAT+4,#15 EQ 20\$ SHL WASTAT+4 SHL #15	<pre>; wait until done ; was it extended? ; br if OK ; push received ; push expected</pre>
13D1'CF 03 01 0069'CF	FB OCE3 1120 CA OCE8 1121 20\$: D1 OCE8 1122 CM 13 OCED 1123 BE	SHAL W^DISALL LLS #3,W^PRINT_FAIL PL W^STAT,#SS\$_NORMAL DL 25\$; push string variable ; print the failure ; check the IO status ; br if no errors
0069'CF 01 0182'CF 13D1'CF 03	DD OCEF 1124 PU DD OCF3 1125 PU DF OCF5 1126 PU FB OCF9 1127 CA	SHL WASTAT SHL #SS\$ NORMAL SHAL WATOEXP LLS #3,WAPRINT_FAIL	push recieved push expected push string variable print the failure
	OCFE 1129 :+	_MODIFY, _S	
	OCFE 1134 ; amount e	that our test file need not be conti qual to its original size. Check th	guous and extend it by an at we've successfully modified
	OCFE	XT_TEST	
0004°CF 23 00 1385°CF 01 047C°CF 04	DO OCFE DD ODO3	MOVL #35,W^CURRENT_TC	
1385'CF 01 047C'CF 04 0482'CF	DO OCFE DD ODO3 FB ODO5 AA ODOA 1139 BI D4 ODOF 1140 CL	CALLS #1.WAREG_SAVE CW2 #FIB\$M_FILCON,WAFIB+FIB\$W_EXCT RL WAFIB+FIB\$L_EXVBN	L : remove contiguous mark : allow the modify to work

```
SATSSS01

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 TESTS

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 TESTS

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 TESTS

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 TESTS TO SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR; 1

- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
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- OD13 1145 FUNC=#105 MODIFY.-
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- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD13 1145 FUNC=#105 MODIFY.-
- OD15 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#105 FUNC=#
```

```
0D13
                                                                          P1 =W^FIBDES .-
                                 0D13
                                                                          P2 =#FILENAME
                                                                                                                       ; try to truncate with IOS_MODIFY
                                                             FAIL_CHECK SSS_NORMAL
                                 0D38
                                                             PUSHL #SS$_NORMAL
CALLS #1,WREG_CHECK
SWAITFR_S EFN=#7
CMPL WASTAT,#SS$_NORMAL
BEQL 10$
    138F 'CF
                                         1148
1149
1150
1151
1152
1153
1154
1155 10$:
                                                                                                                          ; wait for completion
; check IO status
; br if no error
            0069'CF
                           D1
13
DD
DD
DF
            0069°CF
                                                              PUSHL
                                                                          W^STAT
                                                                                                                             push recieved
                                                                         #SS$ NORMAL
W_IOEXP
                                 0D53
                                                              PUSHL
                                                                                                                             push expected
            0182'
                                 0D55
                                                              PUSHAL
                                                                                                                             push string variable
    13D1'CF
                                 OD59
                                                              CALLS
                                                                          #3,W^PRINT_FAIL
                                                                                                                            print the failure
                                 OD5E
                                                                         #FIB$M_FILCON,W^FIB+FIB$W_EXCTL ; set a value to be over written
EFN=#5,-
CHAN=W^CHAN1,-
    047C CF
                                                             BISW2
$QIO_S
                                 0063
                                                                          FUNC=#10$_ACCESS,-
                                 0063
                                          1160
1161
1162
1163
                                                                          IOSB=W^STAT .-
                                 0D63
                                 0D63
                                                                          P1 =W^FIBDES .-
                                 OD63
                                                                          P2 =#FILENAME
                                                          FAIL_CHECK SSS_NORMAL
                                                                                                                          : check for success
                                                             PUSHL #SS$ NORMAL

CALLS #1,W*REG_CHECK

$WAITFR_S EFN=#5

BBC #FIB$M_FILCON,W^FIB+FIB$W_EXCTL,20$; if cleared then OK

PUSHAL W^FILNOTMOD

CALLS #1,W^PRINT_FAIL

; check for success
; wait for completion
; push string variable
; print the failure
                                 0088
    138F 'CF
                                 OD8A
                                 OD8F
                           E1
DF
09 047C'CF
                                 0098
            O1CB'CF
                                          1166
                                 OD9E
    13D1'CF
                                 ODA2
                                          1168 20$:
                                 ODA7
                                 ODA7
                                          1170
                                 ODA7
                                 ODA7
                                                 ; Check that we may read and write the file with IOS_WRITEVBLK & IOS_READVBLK.
                                          1171
                                         1172
1173
1174
                                 ODA7
                                 ODA7
                                                             NEXT_TEST
                                 ODA7
                                 ODA7
                                                 STP36:
                                 ODA7
                   24
00
01
                                                                                     #36,W^CURRENT_TC
    0004 CF
                                 ODA7
                           DE 04
                                                                         PUSHL
CALLS
W^STAT
                                 ODAC
                                                                                     #1, WAREG_SAVE
    1385°CF
                                 ODAE
            0069°CF
0071°CF
                                 ODB3
ODB7
                                                             CLRL
                                                                                                                          : clean the IO status blk
                                                                          WASTAT1
                                                             CLRL
$QIO_S
                                 ODBB
                                                                         EFN =#9 .-
                                 ODBB
                                                                          CHAN=W^CHAN1 .-
                                                                          FUNC=#10$ WRITEVBLK,-
10SB=W^STAT,-
                                 ODBB
                                 ODBB
                                                                         P1 =W^TEST_DATA,-
P2 =#132,-
P3 =#1
                                 ODBB
                                 ODBB
                                 ODBB
                                                                                                                          ; write 132 bytes to VBN 1
                                                             FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
SWAITFR_S EFN=#9
$QIO_S EFN =#10,-
                                 ODE2
ODE2
ODE4
                                                                                                                          ; check success
                   01
    138F 'CF
                                                                                                                          ; wait here til done
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 GIO TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                           1187
1188
1189
1190
1191
1192
1193
                                                                                                               CHAN=W^CHAN1,-
                                                                                                               FUNC=#IO$ READVBLK,-
IOSB=W^STAT1,-
P1 =W^GETBUF+8,-
P2 =#132,-
                                                                ODF2
ODF2
ODF2
                                                                                                               P2 =#13
P3 =#1
                                                                0DF2
0E19
0E19
                                                                                                                                                                       ; read 132 bytes from VBN 1
                                                                                                FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK

$WAITFR_S EFN=#10
MOVAL W*GETBUF+8,R6
MOVAL W*TEST_DATA,R7
MOVL #132,R8

PUSHL #132\(\text{a}16!\)SS$_NORMAL
CALLS #1, W*DISK_BUF_CHECK
                                                                                                                                                                       : check success
                                                         DD
FB
                               138F 'CF
                                                                           1194
1195
1196
1197
                                                                                                                                                                       ; wait here til done
                                 6 01DB CF
7 0250 CF
00000084 8F
00840001 8F
                                                         DEDODDE
                                                                                                                                                                          set buffer address
                                                                                                                                                                       ; set good data address
; set byte count
                                                                          1198
1199
1200
1201
1202
1203
1204
1205
                                                                                                                                                                       ; push expected status return ; check the transfer
                               11CB'CF
                                                                                   : test IOS_DEACCESS, _S
                                                                                                 NEXT_TEST
                                                                                   STP37:
                               0004 °CF
                                                                                                                             #37, W^CURRENT_TC
                                                                                                               MOVL
                                                         DB 040
                                                                                                               PUSHL
CALLS
W^STAT
                                                                                                                            #1, WAREG_SAVE
                               1385 °CF
                                        0069°CF
                                                                                                 CLRL
                                                                                                                                                                       ; clear IO status blks
                                                                                                               WASTAT1
                                        0071 'CF
                                                                                                 CLRL
MOVC5
                              01D3'CF
0476'
                                                 00
              18
                      00
                                                                                                               #0, W^GETBUF, #0, #FIB$L_LOC_ADDR-
                                                                0E60
                                                                                                                                                                       ; clear unneeded stuff in FIB
                                                                                                               -FIB$L_WCC,W^FIB+FIB$L_WCC
                                                                                                 PUSHL
CALLS
$QIO_S
                                                                0E63
0E65
0E6A
0E6A
0E6A
                                                         DD
                                                                                                                                                                       ; push a dummy parameter
                                                                                                               #1.WAREG_SAVE
                               1385 CF
                                                                                                                                                                       ; save a snapshot of regs
                                                                                                                CHAN=W^CHAN1,-
                                                                                                               FUNC=#10$ DEACCESS,-
10SB=W^STAT1,-
P5 =#ATR,-
P1 =W^FIBDES
                                                                0E6A
                                                                0E6A
                                                                0E6A
0E91
0E91
0E93
                                                                                                                                                                       : try S deaccess
: check success
                                                                                                 FAIL_CHECK SSS_NORMAL
                                                                                                               PUSHL #SS$ NORMAL
CALLS #1, WEREG CHECK
                                                         FB
                               138F 'CF
                                                                                                 $WAITFR_S EFN=#5
CMPL #SS$_NORMAL, W^STAT1
BEQL 10$
                                                                                                                                                                       ; wait for completion
; check IO status
; br if OK
                               0071 'CF
                                                         13
00
0F
                                                                OEA6
                                                                OEA8
                                        0071 °CF
                                                                                                  PUSHL
                                                                                                               W"STAT1
                                                                                                                                                                          push recieved
                                                                OEAC
OEAC
OEB2
OEB7
OEB7
OEB7
OEB7
                                                                                                                                                                      ; push expected
; push string variable
; print the failure
                                                                                                               #SS$ NORMAL
                                                                                                  PUSHL
                                                                                                               W^IOEXP
                                        0182
                                                                                                  PUSHAL
                               13D1 'CF
                                                                                                               #3, W^PRINT_FAIL
                                                                                                  CALLS
                                                                                   105:
                                                                                       test IO$_DELETE, _S
                                                                                                 NEXT_TEST
```

	- SATS S	YSTEM SERVICE	TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 [UETPSY.SRC]SATSSS01.MAR;1	Page	34 (3)
0004°CF 26 00 1385°CF 01 0069°CF	DO OEB DD OEB FB OEB D4 OEC OEC	7 STP38: 7 1233 7 1234 7 1235 7 1236 7 1237 7 1238 7 1239 E 1240	MOVL #38, W^CURRENT_TC PUSHL #0 CALLS #1, W^REG_SAVE CLRL W^STAT \$QIO_S EFN =#11,- CHAN=W^CHAN1,- FUNC=#IO\$_DELETE!IO\$M_DELETE,- IOSB=W^STAT,- P1 =W^FIBDES	; init IO status		
138F'CF 01 0069'CF 01 0069'CF 01 0182'CF 13D1'CF 03	DD OEEF D1 OEF D1 OFF DD OFF DD OFF DF OFF D	1241 1242 1243 1243 1244 9 1245 8 1246	FAIL_CHECK SS\$_NORMAL PUSHL #SS\$_NORMAL CALLS #1, W*REG_CHECK \$WAITFR_S EFN=#11 CMPL #SS\$_NORMAL, W*STAT BEQL 10\$ PUSHL W*STAT PUSHL #SS\$_NORMAL PUSHAL W*10EXP CALLS #3, W*PRINT_FAIL \$DASSGN_S CHAN=W*CHAN1	<pre>; delete the file ; check for success ; wait for completion ; check IO status ; br if OK ; push recieved ; push expected ; push string variable ; print the failure</pre>		

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 GIOW TESTS 5-SEP-1984 04:29:37
SATSSS01
V04-000
                                                                                                                                                                                                    VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                    .SBTTL QIOW TESTS
                                                                                                       SQIOW tests
                                                                                                      The $QIO tests check most of the functionality of the QIO services. The purpose of these tests is to check the differences between $QIO and $QIOW.
                                                                                                       test _S and local EFN
                                                                                                                   NEXT_TEST
                                                                                                   STP39:
                                                         27
00
01
                                     0004 °CF
                                                                                                                                                     #39, W^CURRENT_TC
                                                                                                                                    MOVL
                                                                   DD
FB
DE
                                                                                                                                    PUSHL
                                                                                                                                                    #1 . WAREG_SAVE
                                     1385 °CF
                                                                                                                                    CALLS
                                                                                                                   MOVAL WAGIOW, WASERV NAME

$QIO_S CHAN=WAMBCHAN, -
FUNC=#IO$_READVBLK, -
P1 = WAGETBUF+8, -
P2 =#80
                                               0072'CF
                           0307°CF
                                                                                         1264
1265
1266
1267
1268
1269
1271
1272
1273
1274
                                                                                                                                                                                                      ; set service name
                                                                                                                  P2 =#80

$QIOW_S EFN =#16,-
CHAN=W^MBCHAN,-
FUNC=#IO$_WRITEVBLK,-
IOSB=W^STAT,-
P1 =W^TEST_DATA,-
P2 =#80

FAIL_CHECK SS$_NORMAL
CALLS #1,W^REG_CHECK
MOVAL W^GETBUF+8,R6
MOVAL W^TEST_DATA,R7
MOVL #80,R8
MOVL #80a16!SS$_NORMAL,W^STAT1
PUSHL #80a16!SS$_NORMAL
CALLS #1,W^BUF CRECK
MOVCS #0,W^GETBUF+8,#0,#80,W^GETBUF+8; init the buffer
                                                                                                                                                                                                      ; set up the mailbox
                                                                                                                                                                                                      : try S with local EFN ; check for success
                                                                    FB DE DO DO DE SC
                                                                                                                                                                                                         set buffer address
                                                                                                                                                                                                         set good data address
set the byte count
                  0071°CF
                                                                                                                                                                                                         set dummy status
set expected IO status
check the data
                                       00500001
                                                         01
      0050 8F
                          00
                                     O1DB'CF
                                               O1DB'CF
                                                                                         1283
1284
1285
1286
1287
1288
                                                                                                       test _G with local EFN
                                                                                                                   NEXT_TEST
                                                                                                   STP40:
                                                                    DODBO
                                     0004 °CF
                                                                                                                                                    #40, W^CURRENT_TC
                                                                                                                                    MOVL
                                                                                                                                   PUSHL #0

CALLS #1, W^REG_SAVE
W^MBCHAN, W^QIOWP+QIOWS_CHAN
CHAN=W^MBCHAN, -
FUNC=#10$ WRITEVBLK, -
P1 = W^TEST_DATA, -
P2 =#80
                                                                            OF BA
                           012D'CF
                                               031E'CF
                                                                                                                                                                                                      ; set the channel number
                                                                                                                                                                                                     : set up the mailbox : try _G with local EFN
                                                                                                                   SQIOW_G WALLOWP
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SATSSS01
V04-000
                                                                                                                                                                                                                                                                                                        VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                                                                             FAIL_CHECK SS$_NORMAL
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECK
PUSHL #80@16!SS$_NORMAE
CALLS #1, W*BUF_CRECK
MOVC5 #0, W*GETBUF+8, #0, #80, W*GETBUF+8;
                                                                                                                                                                                                                                                                                                            : check for success
                                                                                                       DD FB DD FB C
                                                        138F'CF 01
00500001 8F
1287'CF 01
                                                                                                                                                                                                                                                                                                            ; set expected IO status
                                                                                                                                                                                                                                                                                                                 check the data
         0050 BF
                                        00
                                                       01DB'
                                                                                                                                                                                                                                                                                                                init the buffer
                                                                                                                                      1299
1300
1301
1302
1303
1304
                                                                                                                                                           test _S with common EFN
                                                                                                                                                                               NEXT_TEST
                                                                                                                    1010
                                                                                                                     1010
                                                                                                                                                      STP41:
                                                                                       29
00
01
                                                       0004 CF
                                                                                                                    1010
                                                                                                                                                                                                                                 #41, W^CURRENT_TC
                                                                                                                                                                                                        MOVL
                                                                                                      DD
                                                                                                                    1015
                                                                                                                                                                                                       PUSHL
                                                                                                                                                                                                                                #0
                                                                                                                                                                                                                               #1, WAREG_SAVE
                                                        1385 CF
                                                                                                                    1017
                                                                                                                                                                                                       CHAN=W^MBCHAN.-
                                                                                                                     101C
                                                                                                                                                                               SQIO S
                                                                                                                                                                                                        FUNC=#10$ WRITEVBLK,-
P1 =W^TEST_DATA,-
P2 =#80
                                                                                                                    101C
                                                                                                                                      1307
1308
1309
1310
1311
1312
1313
1314
                                                                                                                    101C
                                                                                                                     101C
                                                                                                                                                                            P2 =#80 ; set up mailbox

$QIOW_S CHAN=W^MBCHAN,-
EFN =#65,-
FUNC=#IO$_READVBLK,-
P1 =W^GETBUF+8,-
P2 =#80 ; try S with comm
check sss_Normal ; check for success

FAIL_CHECK SS$_NORMAL ; check for success
PUSHL #SS$_NORMAL ; set expected IO
CALLS #1,W^REG_CHECK ; check the data
MOVC5 #0,W^GETBUF+8,#0,#80,W^GETBUF+8 ; init the buffer
                                                                                                                                                                                                                                                                                                            : set up mailbox
                                                                                                                    103F
                                                                                                                     103F
                                                                                                                    103F
                                                                                                                                                                                                                                                                                                           : try S with common EFC : check for success
                                                                                                                    1066
                                                                                                      DD FB DD FB 20
                                                                                                                    1066
                                                                                                                    1068
                                                        00500001 8F
1287 CF 01
                                                                                                                    106D
1073
                                                                                                                                                                                                                                                                                                            ; set expected IO status ; check the data
                                                                                      01
                                                       O1DB'CF
                                                                                                                    1078
        0050 BF
                                        00
                                                                       O1DB'
                                                                                                                     108
                                                                                                                                      1318
1319
                                                                                                                                      1320
1321
1322
1323
                                                                                                                                                    ; test _G with common EFC
                                                                                                                                                                               NEXT_TEST
                                                                                                                    1084
                                                                                                                     1084
                                                                                                                                                      STP42:
                                                                                                      DO DB DO
                                                       0004 °CF
                                                                                                                                                                                                        MOVL
                                                                                                                                                                                                                                #42, W^CURRENT_TC
                                                                                                                                                                            PUSHL #0

CALLS #1, W^REG SAVE

MOVL #65, W^QIOWP+QIOWS EFN

MOVL #IO$ WRITEVBLK, W^QIOWP+QIOW$ FUNC; set function

MOVAL W^TEST DATA, W^QIOWP+QIOW$ P1; set new P1 para

$QIO_S CHAN=W^MBCHAN, -

FUNC=#IO$ READVBLK, -

P1 = W^GETBUF+8, -

P2 =#80

$QIOW_G W^QIOWP
FAIL_CHECK SS$_NORMAL

CALLS #1, W^REG CHECK

PUSHL #80@16!SS$_NORMAL

                                                                                                                                                                                                      PUSHL
                                                                                                                     108B
1090
1099
109E
                                                       00000041
0131 CF
                           0129°CF
                                        0141 'CF
                                                                       0250 °CF
                                                                                                       DE
                                                                                                                                                                                                                                                                                                           ; set new P1 parameter
                                                                                                                      IOA5
                                                                                                                                                                                                                                                                                                           : set up mailbox
: try G with common EFN
: check for success
                                                                                                                     10C8
                                                                                                                     100
                                                                                                                    1001
1003
                                                                                                       FB
                                                           00500001 8F
                                                                                                                                      1333
                                                                                                                    10D8
                                                                                                                                                                                                                                                                                                           ; set expected 10 status
```

VO

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37

- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 ROUTINES 5-SEP-1984 04:29:37 .SBTTL ROUTINES .SBTTL SETUP_SUPER ROUTINE Routine to declare an initial CHMS handler from user mode. FUNCTIONAL DESCRIPTION: CALLING SEQUENCE: SCMKRNL_S WASETUP_SUPER, ARGLST ARGLST = address of a pointer to a one parameter argument list conta the address of the entry mask of the CHMS handler INPUT PARAMETERS: ARGLST IMPLICIT INPUTS NONE **OUTPUT PARAMETERS:** Declares a change mode handler for super mode which must be reset to DCL in the users handler routine when the handler is no longer needed. IMPLICIT OUTPUTS: NONE COMPLETION CODES: NONE SIDE EFFECTS: NONE ON ENTRY: KSP => 00 USP => USER AP CALL PC FRAME AP SRVEXIT

PSL

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```
RETURN_PC:
                                                                14089011234516789012345267890123
14141414114142234567890123
                        00000000
                                                                                                      LONG
                                                                                                                                                                                      : storage for user return PC
                                                                              HANDLER_PC:
                        00000000
                                                                                                    . LONG
                                                                                                                                                                                      : storage for handler PC
                                                                              SETUP_SUPER:
                                 000C
DB
D0
D0
D0
C0
9E
F0
                                                                                                   .WORD
                                                  1137
1139
1134
1144
1144
1153
1153
1158
1158
1164
1163
1164
117
                                                                                                                        ^M<R2,R3>
                                                                                                                       #PR$_USP,R3

$\text{FPK} = \text{USP},R3

$\text{FPK} = \text{SAVE} = \text{PC}(R3), B^RETURN_PC; get the user return PC

4(AP), HANDLER_PC; save the handler address

$\text{SF$L SAVE} = \text{FP}(\text{FP}),R2; get saved FP

$\text{S^*EXE$C CMSTKSZ,R2} ; back over change mode stack from B^20$, (R2)

$\text{SEC SUPERDRES SC CUMPARTS SET RETURN ADDRESS
             53
                         03
AC
AD
00
AF
0A
16
                  10
04
00
                                                                                                    MOVL
                                                                                                    MOVL
                                                                                                                                                                                          get saved FP
back over change mode stack frame
set return address
          52 5B'
                                                                                                    MOVL
                                                                                                    ADDL
     62
                                                                                                    MOVAB
                                                                                                                       #<<PSL$C_SUPERaPSL$S_CURMOD>+PSL$C_SUPER>,-
#PSL$V_PRVMOD,-
#PSL$S_CURMOD*2,4(R2) ; set current and pr
S^#SS$_NORMAL,R0 ; set correct return
                                                                                                    INSV
            A2
                          04
                                                                                                                                                                                      ; set current and previous mode to super ; set correct return code
                                       04
                                                                                                    MOVL
                                                                                                    RET
                                                                                                                                                                                       ; enter super mode
                                                                             20$:
                          7E
6E
                                                                                                   CLRL
                                                                                                                                                                                      ; set up dummy PSL ; create initial call frame
     61 AF
                                                                                                                        (SP),B*30$
                                                                              30$:
                                  0000
                                                                                                     WORD
                                                                                                                        ^M<>
                                                                                                                                                                                           entry mask
                          00
                                       DD
                                                                                                   PUSHL
                                                                                                                                                                                           push a dummy parameter
                                                                                                  CALLS #1, W^REG_SAVE ; save the registers

$DCLCMH_S \( \text{a}\) HANDLER_PC_W^PRVHND1,#0 ; set real handler

FAIL_CHECKNP_SS$_NORMAL ; check for success

PUSHL #SS$_NORMAL

CALLS #1, W^REG_CHECKNP

PUSHL #<<PSL$C_USER\( \text{D}\) FRVMOD>-

!<PSL$C_USER\( \text{D}\) PRVMOD>; set return to user

PUSHL RETURN_PC ; set the return PC

PUSHL RETURN_PC ; set the return PC
1385°CF
                                                  117A
1A76'CF 01
03C00000 8F
                                       FB
                                                  117C
                                                                 1434
1435
1436
1437
                                                 1181
1187
1187
118A
                                       DD
                                                                                                                                                                                      ; set the return PC ; return to user mode
                  A5 AF
                                                                                                   REI
```

11CA

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
SUPER_MODE 5-SEP-1984 04:29:37
                                                                                                          VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                             .SBTTL SUPER_MODE
                                                FUNCTIONAL DESCRIPTION:
                                                        Routine to handle the CHMS instructions.
                                                CALLING SEQUENCE:
                                                       CHMS
                                                INPUT PARAMETERS:
                                                          SP=>
                                                                  CHMS parameter
                                                          The CHMS parameter can be one of the following:
                                                                  1 = execute $ASSIGN and $DASSGN service tests
                                                                  2 = execute a $DCLCMH S to reset the CHMS handler to DCL
3 = execute $ALLOC and $DALLOC service tests
                               118B
                                                OUTPUT PARAMETERS:
                               118B
                                                       NONE
                                       1460
                               118B
                               118B
118B
118B
118E
                                             SUPER_MODE:
                                       1462
            50
                         DO
8F
                                                                  (SP)+,R0
                                                        MOVL
                                                                                                           ; get CHM parameter off the stack
      03
                                       1464 108:
                                                        CASEB
                                                                  RO,#1,#3
                                                                                                            ; do the right thing
                       0006'
0010'
0031'
                                       1466
                                                        . WORD
                                                                  20$-10$
A30-10$
                                                        . WORD
                                                                  A40-10$
                                       1468
                                                        . WORD
                                       1469 20$:
                                                                 #PSL$C_SUPER
#1, W^ASSDAS_CHK
A50
                         DD
FB
31
                                                       PUSHL
                                                                                                            : push the mode
                   01
                                       1471
                                                       CALLS
      1BEF 'CF
                                                                                                              do the tests
                                      1472
1473 A30:
1474
1475
                0028
                               119F
                                                                                                              get back to user mode
                                                       MOVAL W^DCLCMH, W^SERV_NAME
$DCLCMH_S @PRVHND1, #0
FAIL_CHECK SS$_NORMAL
0307'CF
            0077°CF
                         DE
                                                                                                            ; set service name pointer
                               11A9
                                                                                                            ; reset the CHMS handler for DCL
                                       1476
                               11BA
                                                                                                            : check for success
                                                                  PUSHL
CALLS
A50
                          DD
                                                                            #SS$_NORMAL
                               11BA
                         FB
11
                   01
                                                                            #1, WREG_CHECK
      138F 'CF
                               11BC
                                       1477
                                                       BRB
                               1101
                                                                                                            ; get back to user mode
                                      1478 A40:
                               11C3
                                                                  #PSL$C_SUPER
#1,W^ACLDAL_CHK
                         DD
FB
                   02
                               1103
                                                        PUSHL
                                                                                                           ; push the mode
                                       1480
1481
1482
      1B5C'CF
                               1105
                                                        CALLS
                                                                                                            ; do the tests
                                             A50:
                               11CA
```

: return to user mode

REI

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```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 BUF_CHECK 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                            .SBTTL BUF_CHECK
                                                                                 FUNCTIONAL DESCRIPTION:
Routine to check the contents of a buffer against known good
                                                                                            data and check the IO status return.
                                                                                 CALLING SEQUENCE:
PUSHL #EXPECTED_IOSTATUS
CALLS #1, W^BUF_CHECK
                                                                                                                                                ; set expected IO status ; check buffer
                                                                                 INPUT PARAMETERS:
R6 = buffer address
R7 = good data address
                                                                                            R8 = byte count
                                                                                            STAT = 10 status #1
                                                                                            STAT1 = IO status #2
                                                                                  OUTPUT PARAMETERS:
                                                                                            NONE
                                                                              DISK_BUF_CHECK:
                                                                                            "WORD "M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>

$GETDVI_S (HAN = CHAN1,- ; Get characteristics for our disk

ITMLST = DISK_ITMLST

MOVW PB+8+DIB$W_UNIT,-(SP) ; Save old device unit number...

MOVW DISK_UNIT,PB+8+DIB$W_UNIT ; ...and substitute our own

PUSHL ARGLST1 ; Save ptr to old device name desc.
                                                   OFFC
                                                   80
00
00
0E
00
FB
8ED0
80
04
                               0000037A'EF
00001283'EF
        0000037A'EF
                                                                                                                                                 : Save ptr to old device name desc...
: ...and substitute our own
                                                                                                         DISK NAME, ARGLST1
                                             EF
AC
01
        000002EB'EF
                                                                                            MOVAL
                                                                                            PUSHL
                                                                                                         #1 BUF CHECK
                      00001287'EF 01
000002EB'EF
0000037A'EF 8E
                                                                                                                                                   Check that we got good data
Restore old device name desc...
                                                                                            CALLS
                                                                                            POPL
                                                                                                                                                 : ...and unit number
                                                                                                         (SP)+,PB+8+DIB$W_UNIT
                                                                                            MOVW
                                                                              DISK_ITMLST:
DISK_NAME:
                                                                                                                                                   ITMLST for $GETDVI
                                                                                                                                                   Note that this becomes desc for name
                                                                                            .WORD 64.DVIS DEVNAM
.ADDRESS DISK_NAME_BUF
.ADDRESS DISK_NAME
.WORD 4.DVIS UNIT
.ADDRESS DISK_ONIT
.LONG 0
                                          0020 0040
00001243
00001227
000C 0004
00001283
00000000
00000000
                                                                                                                                                   Our disk name
                                                                                                                                                   Note that we overwrite length!
                                                                                                                                                 : The unit number of the spindle
                                                                                                                                                 : End of $GETDVI ITMLST
                                                                                             . LONG
                                                                              DISK_NAME_BUF:
                                                                                                                                                 ; String giving our disk name
                                             00001283
                                                                                                                                                 ; Unit number of the spindle
                                                                               DISK_UNIT:
                                             00001287
                                                                                            .BLKB
                                                                               BUF_CHECK:
                                                                                                         ^M<R2,R3,R4,R5,R6,R7,R8,R9>
R6,R9
R8,(R7),(R6)
10$
                                                   03FC
                                                                                             . WORD
                                                                                                                                                              : save a copy of the buffer address
                                                                                             MOVL
                                                                                                                                                              ; check the buffer
; br if good
                                                                                             CMPC3
                                                                                             BEQL
```

	- SA BUF_	TS SYST	EM SERVICE	TESTS (SI	JCC S.C.) 16-SEP-1984 00:44:47 5-SEP-1984 04:29:37	VAX/VMS Macro V04-00 [UETPSY.SRC]SATSSS01.MAR;1
02F3'CF 53 59 02EF'CF 037A'CF 02F7'CF 61 02FB'CF 63	C3 3C 9A 9A	1292 1298 1295 12A4 12A9 12A9	1541 1542 1543 1544 1545 1546	SUBL3 MOVZWL MOVZBL MOVZBL \$GETMSG	R9,R3,W^ARGLST1+8 W^PB+DIB\$W_UNIT+8,W^ARGLST1+4 (R1),W^ARGLST1+12 (R3),W^ARGLST1+16 S MSGID=#UETP\$_DATAER,- MSGLEN=W^ML BUFADR=W^CTRSTR,-	get buffer offset get the unit number get the good data get the bad data
13D1'CF 01	DF FB	12A9 12C2 12D9 12DD 12E2	1548 1549 1550 1551 1552 10\$:	SFAOL S PUSHAE CALLS #1	W^CTRSTR,W^ML,W^GETBUF,W^ARGLST W^ML I,W^PRINT_FAIL	; get the ctrstr 11; make it readable ; push the desc. address ; print the failure
0069'CF 04 AC 0069'CF 0C	D1 13 DD 11	12E2 12E8 12EA 12EE 12F0	1553 1554 1555 1556 1557 20\$:	CMPL BEQL PUSHL BRB	4(AP), W^STAT 20\$ W^STAT 30\$	<pre>; check status #1 ; br if OK ; else save it ; and continue in common</pre>
0071'CF 04 AC 10 0071'CF	D1 13 DD	12F0 12F6 12F8 12FC	1558	CMPL BEQL PUSHL	4(AP),W^STAT1 40\$ W^STAT1	; check IO status #2 ; br if OK ; else save it
04 AC 0182 CF 13D1 CF 03	DD DF FB	12FC 12FF 1303 1308	1560 1561 30\$: 1562 1563 1564 1565 40\$:	PUSHAL PUSHAL CALLS	4(AP) W^IOEXP #3,W^PRINT_FAIL	; save expected ; push string variable ; print the failure
	04	1308	1566	RET		; return

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S

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
                                               .SBTTL IONC
                                       FUNCTIONAL DESCRIPTION:
                                              AST routine to service IO AST's for the CANCEL service
                                       CALLING SEQUENCE:
                                              Entered via an AST
                                       INPUT PARAMETERS:
                                              STAT = CANCEL status return
                                       OUTPUT PARAMETERS:
                                              NONE
                                    IONC:
                                                      *M<R2,R3,R4,R5,R6,R7,R8,R9>
#0,B*CAN_CHECK
                                               WORD
  1B'AF
                                               CALLS
                                                                                                ; check the cancel
                                               SWAKE_S
                                                                                                ; tell the test to wake up!
                  04
                                               RET
                                                                                                : return
                                               .SBTTL CAN_CHECK
                                      FUNCTIONAL DESCRIPTION:
                                              Routine to check the results of a CANCELLED IC.
                                       CALLING SEQUENCE:
                              1595
1596
1597 : IN
1598 :
1599 : OU
1600 : OU
1603 : --
1604 CAN_
1605 CAN_
1606
1610
1611
1612
1613
1614
1615
                                              CALLS #0, W^CAN_CHECK ; check results
                                       INPUT PARAMETERS:
                                              NONE
                                       OUTPUT PARAMETERS:
                                              NONE
                                     CAN_CHECK:
                                               .WORD^M<R2,R3,R4,R5,R6,R7,R8,R9>
     0071 'CF
                                                                                                : check IO status blk
; br if OK
                                               CMPW
                                                        10$
                                              BEQL
                  DDDFB
      0071 'CF
                                               PUSHL
                                                        W^STAT1
                                                                                                ; push received
                                                        #SS$_ABORT
                                               PUSHL
                                                                                                ; push expected
      0174 CF
                                                        W^EXP
                                                                                                ; push string variable ; print the failure
                                               PUSHAL
            03
                                                        #3, WAPRINT_FAIL
13D1'CF
                                               CALLS
      0069°CF
                                              CLRL
                                                        W^STAT
                                                                                                ; setup for next CANCEL
```

: return

90

REFERENCES

FFDB CF

53 10 F1 54

```
; assigned channel count
                                                                                ; get base and offset to test assign
                                                                                ; set starting channel index
; get number of I/O channels
; init the # of channels
1640
1641
1642
1643
1644
1645
1646
1647
1648
1649
1650 ;++
1651 ; FUI
1653 ; CAI
1655 ; INI
1658 ;
                    TSTB
                                (R2)[R3]
20$
                                                                                ; is channel assigned?
; br if not assigned
                    BEQL
                                WATOTAL_CHAN
                    INCL
                                                                                 ; else bump chan count
                    SUBL2 #CCB$C_LENGTH,R3
SOBGTR R4,10$
                                                                                ; calc next channel index
                                                                                ; any more CCB's?
                    RET
                                                                                 : return
                    .SBTTL STORE_STEP
        FUNCTIONAL DESCRIPTION:
                    Routine to store step information in the error log buffer.
```

CALLING SEQUENCE:
CALLS #0, W^STORE_STEP

INPUT PARAMETERS: ELBP = current errlog buffer pointer

OUTPUT PARAMETERS: FLAG = error logged flag

1660 1661 1662 1663 1664 1665 1666 1667 1670 1671 1672 STORE_STEP: .WORD BISB2 #1,W^FLAG W^ELBP,R2 W^SERV_NAME,(R2)+ W^CURRENT_TC,(R2)+ W^MODE,(R2)+ R2,W^ELBP MOVL MOVL MOVL MOVL MOVL

: set the error logged flag : get errlog buf pntr ; save the service name ; save the step number ; save the mode ; reset the errlog buf pntr : return

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 REG_SAVE 5-SEP-1984 04:29:37
                                                                                                               VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                             .SBTTL REG_SAVE
                                            FUNCTIONAL DESCRIPTION:
                                                             Subroutine to save R2-R11 in the register save location.
                                                     CALLING SEQUENCE:
                                                            PUSHL
                                                                                            ; save a dummy parameter
                                                                       #1, WAREG_SAVE
                                                                                            : save R2-R11
                                                     INPUT PARAMETERS:
                                                             NONE
                                                     OUTPUT PARAMETERS:
                                                             NONE
                                                  REG_SAVE:
                                                            .WORD
                                                                       ^M<R2.R3,R4,R5,R6,R7,R8,R9,R10,R11>
#4*10,^X14(FP),W^REG_SAVE_AREA ; save the registers in the program
 0008'CF
              14 AD
                                            1694
                                            1695
                                                             RET
                                            1696
1697
                                                             .SBTTL REG_CHECK
                                            1698
                                                  : FUNCTIONAL DESCRIPTION:
                                            1699
1700
1701
1702
1703
1704
1705
1706
1707
1708
1709
1710
                                                            Subroutine to test RO & R2-R11 for proper content after a service execution. A snapshot is taken by the REG_SAVE routine at the
                                                             beginning of each step and this routine is executed after the
                                                             services have been executed.
                                                     CALLING SEQUENCE:
                                                                       #SS$_XXXXXX ; push expected RO contents #1,WREG_CHECK ; execute this routine
                                                            PUSHL
                                                     INPUT PARAMETERS:
                                                            expected RO contents on the stack
                                                     OUTPUT PARAMETERS:
                                                            possible error messages printed using $PUTMSG
                                            1714
                                                  REG_CHECK:
                                                             . WORD
                                                                       ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
                                                                       4(AP),RO
                    04
              50
                                                             CMPL
                                                                                                                   is this the right fail code?
br if yes
                                                                       10$
                                                             BEQL
                              DD DF FB
                                                             PUSHL
                                                                                                                   push received data
                                                             PUSHL
                                                                                                                   push expected data
                                                             PUSHAL
                                                                       W^EXP
                                                                                                                   push the string variable
                                                                       #3, W^PRINT_FAIL
           13D1'CF
                                                             CALLS
                                                                                                                   print the error message
                                                  105:
 0008 °CF
                               29
13
C6
81
CA
                                                             CMPC3
                                                                                                                  check all but RO br if O.K.
              14 AD
                                                                       #4*10, "X14(FP), W"REG_SAVE_AREA
                                     3AC
13AE
13B6
13B9
13BD
13CO
                                                             BEQL
                                                            SUBL3
DIVL2
ADDB3
BICL2
BICL2
    53
            80000008
56
                                                                       #REG_SAVE_AREA,P3,R6
                                                                                                                 ; calculate the register number
                                                                       #4,R6
#2,R6,-(SP)
#3,R1
#3,R3
                  56
56
51
53
           7E
                                                                                                                 : set number past RO-R1 and save
                                                                                                                 ; backup to register boundrys
```

TH

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
REG_CHECKNP 5-SEP-1984 04:29:37
                                                                                                                           VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
                                                                                                                                                                                 (5)
                                                             .SBTTL REG_CHECKNP
                                                  FUNCTIONAL DESCRIPTION:
                                                            Subroutine to test RO & R2-R11 for proper content after a service execution without printing it. A snapshot is taken by the REG_SAVE routine a beginning of each step and this routine is executed after the services have been executed. This routine collects the error information in buffer ERLB instead of printing it.
                                                   CALLING SEQUENCE:
PUSHL #555
CALLS #1,0
                                                                         #SS$ XXXXXX : push expected RO contents #1, WREG_CHECK : execute this routine
                                                   INPUT PARAMETERS:
                                                            expected RO contents on the stack
                                                   OUTPUT PARAMETERS:
                                                             possible error messages logged in buffer ERLB which are printed
                                                             using routine ERLBUF_DUMP.
                                                            Error packets are in the following form:
                                                                           -----
                                                                           Service name pntr
                                                                                   Step #
                                                                           Mode name pointer
                                                                                                         long word count
                                                                          !\/\/\/\/\/\! 3-4 parameter long words
                                               FLAG:
                       00
                                                             .BYTE 0
                                                                                                   ; error flags are BITO = 0 means no errors in the bu
                                                                                                                                BITO = 1 means errors in the buffe
                                               ELBP:
              0000149A'
                                                             .ADDRESS ERLB
                                                                                                   ; error log buffer pointer
                                               ERLB:
              00001A76
                                                             .BLKB
                                                                         1500
                                                                                                   ; error log buffer
                                               REG_CHECKNP:
                                                                         ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
4(AP),R0 ; is this the right fail code
10$ ; br if yes
                                                            .WORD
                    OFFC
   50
                       013800000E40E0
                                                             BEQL
                                                                      #0, W^STORE_STEP
ELBP, R2
#3, (R2)+
F8E1
                                                             CALLS
                                                                                                      store step information
       FAOF
                                                             MOVL
                                                                                                      get the current error log pointer
                                                                                                     save the long word count
save received status
save expected status
save the string variable
set the terminator
                              1A88
1A8B
1A8E
1A92
1A97
1A99
                                                             MOVB
                                                                         RO, (R2)+
4(AP), (R2)+
W^EXP, (R2)+
(R2)
                                                             MOVL
       0174
   82
                                                             MOVL
                                                             MOVAL
                                                             CLRL
                                                                         R2,ELBP : reset the buffer pointer W^TEST_MOD_FAIL.W^TMD_ADDR ; set failure message address #ERROR,#0,#3,W^MOD_MSG_CODE ; set severity code
       CF
002A
00
                                                             MOVL
                                                             MOVAL
                                                             INSV
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 REG_CHECKNP 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                           1843 10$:
1844
1845
1846
1847
1848
1849
1850
1851
1852
1853
1854
1855
                     0008°CF
                                                                               TAAC
                                                                                                                                        #4*10, "X14(FP), W^REG_SAVE_AREA; check all but RO and R1 20$; br if OR
                                       14 AD
                                                                      29
13
FB
09
C3
                                                                                                                       CMPC3
                                                                              1AB3
1ABA
1ABF
1AC8
1ACA
1ACD
1AD1
1AD2
1AD2
1AD3
1AEA
                                                                                                                       BEQL
                                                                                                                       CALLS #0, WASTORE_STEP

MOVL ELBP, R2

MOVB SAW4, (R2) +

SUBL3 #REG_SAVE_AREA, -
                                                                                                                                                                              store step information
                                                                                                                                                                             get current error log buf pointer
set longword count
                                                 F908
                                        00000008
                                                                                                                      SUBL3
R3,R6
DIVL2
ADDL3
                                                                                                                                                                             calc reg number
make it a longword count
correct for RO-R1 and save
                                                                                                                                       S^#4,R6
S^#2,R6,(R2)+
(R1),(R2)+
(R3),(R2)+
W^REG,(R2)+
                                                                      CCDODE40E0
                                      82
                                                                                                                                       (R1),(R2)+ ; save received results
(R3),(R2)+ ; save expected results
W^REG,(R2)+ ; save string variable
(R2) ; set the terminator
R2,ELBP ; reset the buffer pointer
W^TEST_MOD_FAIL,W^TMD_ADDR ; set failu
#ERROR,#0,#3,W^MOD_MSG_CODE ; set sever
                                                                                                                       MOVL
                                                                                                                       MOVL
                                                 015D'
                                      82
                                                                                                                       MOVAL
                                                                                                                       CLRL
                                                CF 52
002A CF
00 02
                                      F9B3
                                                                                                                       MOVL
                            004C'CF
                                                                                                                       MOVAL
                                                                                                                                                                                                           ; set failure message address
                 0044 CF
                                                                                                                       INSV
                                                                                                                                                                                                            ; set severity code
                                                                               1AF1
                                                                                            1860 20$:
                                                                      04
                                                                               1AF1
                                                                                                                       RET
                                                                                                                                                                          : bail out
```

```
.SBTTL ERLBUF_DUMP
                                                   FUNCTIONAL DESCRIPTION:
                                                               Routine to check for errors in the error log buffer and
                                   1AF2
1AF2
1AF2
1AF2
1AF2
1AF2
                                                               report any that are there.
                                                      CALLING SEQUENCE:
                                                               CALLS #0, WERLBUF_DUMP
                                                              PARAMETERS:
                                                      INPUT
                                                               FLAG bit 0 = 0 for no errors logged
FLAG bit 0 = 1 for errors logged
if errors logged then buffer ERLB must contain legal format errors
                                   1AF2
                                   1AF2
                                   1AF2
                                                      OUTPUT PARAMETERS:
                                   1AF2
                                                               NONE
                                   1AF2
                                            1880
                                   1AF2
                                   1AF2
                                                   ERLBUF_DUMP:
                                                                          ^M<R2,R3,R4>
FLAG,30$
ERLB,R2
      52 F99D CF
                          001C
                                   1AF2
                                                               . WORD
                                            1884
                             E9
DE
                                   1AF4
                                                               BLBC
                                                                                                  ; br if no errors to report
                                                               MOVAL
                                   1AF9
                                                                                                  ; set up buffer pointer
                                           1886
1887
1888
                                                   105:
                                   1AFE
                             D5
                                                                           (R2)
                                   1AFE
                                                                                                    any more errors?
br if not
                                                               TSTL
                                   1B00
                                                               BEQL
                                                                          (R2)+, W^SERV_NAME; reset service
(R2)+, W^CURRENT_TC; reset step #
(R2)+, W^MODE; reset the mode
(R2)+, R3; get the longwork
                             00004
                                            1889
                                   1802
1807
       0307°CF
                                                               MOVL
                                                                                                    ; reset service name
       0004 CF
0159 CF
                                                               MOVL
                                            1891
                                   1B0C
                                                               MOVL
                                            1892
1893
                                   1811
                                                               MOVZBL
                                                                                                    get the longword count and save it
                             DO
                                   1B14
                                                                          R3,R4
                                                               MOVL
                                           1894
                                   1B17
                                                   20$:
                                   1817
1819
1810
1821
1823
1823
1824
1826
                                                                          (R2)+
R3,20$
R4,W^PRINT_FAIL
10$
                             DD
F5
                                                               PUSHL
                                                                                                     push a parameter
                                           1896
1897
                                                                                                    and push them all
print the failure
                 FB
                             FB
11
       F880 CF
                                                               CALLS
                                           1898
1899
1900
                                                               BRB
                                                                                                     do the next one
                                                   30$:
              F973 CF
F96C CF
                                                               MOVAL
F96C CF
                                                                          W^ERLB, W^ELBP
                                                                                                    reset the buffer pointer
                                                                                                    set fresh terminater
                                            1901
                                                                          W^ERLB
                                                               CLRL
                                            1902
                                                               RET
                                                                                                  ; bail out
```

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
SATSSS01
V04-000
                                                                                                .SBTTL MODE_ID
                                                                                  FUNCTIONAL DESCRIPTION:
                                                                                                Subroutine to identify the mode that an exit handler is in.
                                                                                     CALLING SEQUENCE:
CALLS #0, W^MODE_ID
                                                                                     INPUT PARAMETERS:
MODE contains an address pointing to an ascii string desc.
                                                                                                of the current CPU mode.
                                                                                     OUTPUT PARAMETERS:
                                                                                                NONE
                                                                                  MODE_ID:
                                                                                                .WORD ^M<R2.R3.R4.R5>
$FAO_S W^CS5.W^MESSAGEL,W^MSGL,MOSE; format the error message
$PUTMSG_S W^MSGVEC; print the mode message
                                                     003C
                                                                                                .SBTTL ALLDAL_CHK
                                                                                  ; FUNCTIONAL DESCRIPTION:
                                                                                                Subroutine to do the $ALLOC and $DALLOC tests
                                                                                     CALLING SEQUENCE:
                                                                                                PUSHL #ACCESS MODE
CALLS #1, WALEDAL_CHK
                                                                                     INPUT PARAMETERS:
                                                                                                4(AP) = the access mode for the test
                                                                         1940
1941
1942
1943
1944
1945
1946
1947
1950
1951
1953
                                                                                     OUTPUT PARAMETERS:
                                                                                                NONE
                                                                                  ALLDAL_CHK:
                                                     003C
                                                                                                 . WORD
                                                                                                              ^M<R2,R3,R4,R5>
                                                                                                PUSHL
                                                                                              PUSHL #0

CALLS #1, W^REG SAVE ; save a register snapshot

$ALLOC_S DEVNAM=W^MBNAM,-
PHYLEN=W^ML,-
PHYBUF=W^GETBUF,-
ACMODE=4(AP) ; try S mode

FAIL_CHECKNP SS$ NORMAL ; check for success
PUSHL #SS$_NORMAL
CALLS #1, W*REG_CHECKNP

MOVL 4(AP), W^ALLO+ALLOC$_ACMODE ; set the new access mode

$ALLOC_G W^ALLO
                                                                                                                                                       ; push a dummy parameter
                              F820 CF
                                                                187D
187D
187F
1884
188A
1893
1893
1899
                                                                         1954
1955
1956
                                                                                                SALLOC G WALLO FAIL CHECKNP SSS DEVALRALLOC PUSHL #SSS DEVALRALLOC CALLS #1, WREG CHECKNP MOVAL WALLOC, WASERV_NAME
                                                                                                                                                       : try G mode
: check for proper failure
```

; set new service name

00000641 8F ED8 CF 01

FED8 CF 01 CF 004C'CF

DD FB DE

77

```
- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 ALLDAL_CHK 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1
                                                                                             SDALLOC_S DEVNAM=W^MBNAM,-
                                                                 1958
1959
1960
                                                     1883
1883
1885
1885
1884
1801
                                                                                            ACMODE=4(AP) ; try S mode

FAIL_CHECKNP SS$ NORMAL ; check for success

PUSHL #SS$ NORMAL

CALLS #1, W*REG CHECKNP

MOVAL W*A!LOC, W*SERV_NAME ; set new service name

$ALLOC G W*ALLO ; try successful G form

FAIL_CRECKNP SS$ NORMAL ; check for success

PUSHL #SS$ NORMAL

CALLS #1, W*REG CHECKNP

MOVAL W*DALLOC, W*SERV NAME ; set new service name

MOVL 4(AP), W*DALL+DALLOC$_ACMODE ; set new access mode

$DALLOC G W*DALL ; try G mode

FAIL_CHECKNP SS$ NORMAL ; check for success

PUSHL #SS$ NORMAL ; check for success

PUSHL #SS$ NORMAL ; check for success

PUSHL #SS$ NORMAL ; check for success

PUSHL #SS$ NORMAL ; return

RET ; return
                                                                                                                    ACMODE=4(AP)
                                                                                                                                                                   : try S mode
: check for success
                                           DB
0307'CF 0038'CF
                                                                 1961
1962
1963
                                                     1BCA
                                           DD FB DE DO
                                                     1BCA
                                                     1BCC
0307°CF
                      004C'CF
                                                     1BD1
1BD8
                                                                 1964
1965
1966
1967
    OOBD 'CF
                                                     1BDE
                                                     1BE
                                                     1BE7
                                 01
                                           FB 04
          FE88 CF
                                                     1BE9
                                                                 1968
1969
1970
1971
1972
1973
1974
                                                     1BEE
                                                                                              RET
                                                                                                                                                                   : return
                                                     1BEF
                                                     1BEF
                                                                                              .SBTTL ASSDAS_CHK
                                                     1BEF
                                                     1BEF
                                                                                FUNCTIONAL DESCRIPTION:
                                                     1BEF
                                                                                              Subroutine to do the $ASSIGN and $DASSGN tests
                                                     1BEF
                                                                 1975
1976
1977
1978
1979
                                                     1BEF
                                                                                CALLING SEQUENCE:
                                                                                             PUSHL #ACCESS MODE
CALLS #1, WASSDAS_CHK
                                                     1BEF
                                                     1BEF
                                                     1BEF
                                                     1BEF
                                                                                INPUT PARAMETERS:
                                                                                              4(AP) = the access mode for the test
                                                     1BEF
                                                                 1980
                                                                 1981
                                                     1BEF
                                                                                              CHAN_SAVE = correct number of channels
                                                                 1982
1983
                                                     1BEF
                                                     1BEF
                                                                                OUTPUT PARAMETERS:
                                                                 1984
1985
                                                     1BEF
                                                                                             NONE
                                                     1BEF
                                                                 1986
1987
                                                     1BEF
                                                     1BEF
                                                                           ASSDAS_CHK:
                                                     1BEF
                                                                 1989
                                       003C
                                                    1BEF
                                                                                               WORD
                                                                                                               ^M<R2,R3,R4,R5>
                                           DD
                                                     1BF
                                                                                              PUSHL
                                                                                                                                                                   ; push a dummy parameter
                                                                                              CALLS #1, WAREG SAVE
SCREMBX_S CHAN=WAMBCHAN,-
                                                                 1991
1992
1993
1994
1995
1996
1997
1998
          F78D CF
                                           FB
                                                     1BF 3
                                                                                                                                                                   ; save a register snapshot
                                                     1BF 8
                                                                                                                    LOGNAM=W^MBNAM, -
                                                     1BF 8
                                                     1BF 8
                                                                                                                    PRMFLG=#0,-
                                                     1BF 8
                                                                                                                    ACMODE=#PSL$C_USER
                                                                                                                                                                   ; create temp mailbox
                                                                                             SASSIGN_S DEVNAM=W^MBNAM, -
                                                                                                                   CHAN =W^CHAN1,-
ACMODE=4(AP)
                                                                                                                                                                   : try S mode
; check success
                                                                                            FAIL_CHECKNP SS$ NORMAL ; check success
PUSHL #SS$ NORMAL
CALLS #1,W*REG CHECKNP
MOVL 4(AP),W*ASGN+ASSIGN$_ACMODE ; set the new mode
$ASSIGN G W*ASGN ; try the _G form
FAIL_CHECKNP SS$ NORMAL ; check success
PUSHL #SS$_NORMAL
CALLS #1,W*REG CHECKNP
MOVAL W*DASSGN,W*SERV_NAME ; set service name
$DASSGN_S CHAN=W*CHAN1 ; release channel
    0085 CF (
                                           FB
DO
                                                                 2000
2001
2002
                                           DD
FB
DE
0307'CF 0045'CF
```

VO

42

73

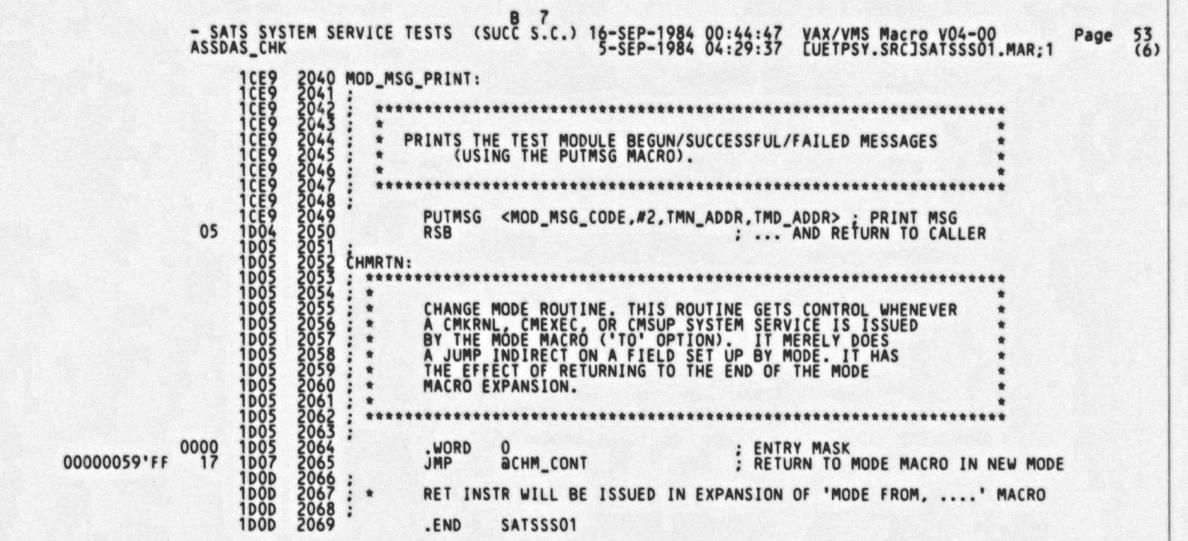
55

55

SATSSS01 V04-000

	- SATS SYSTEM SERVICE ASSDAS_CHK	TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 Page 52 5-SEP-1984 04:29:37 [UETPSY.SRC]SATSSS01.MAR;1 (5)
01 00B1'CF 0322'CF	DD 1C53 FB 1C55 DO 1C5A 2006 1C61 2007 1C6A 2008	FAIL_CHECKNP SS\$ NORMAL ; check success PUSHL #SS\$ NORMAL CALLS #1, W*REG_CHECKNP MOVL W*CHAN2, W*DASS+DASSGN\$_CHAN ; set channel number \$DASSGN_G W*DASS ; try G form FAIL_CHECKNP SS\$_NORMAL ; check success
FE05 CF 01	106A 2008 DD 106A FB 106C 1071 2009 107D 2010	PUSHL #SS\$_NORMAL CALLS #1,W*REG_CHECKNP \$DASSGN_S CHAN=W*MBCHAN ; get rid of the mailbox
FDF2 CF 01 0320 CF 06 0322 CF 20	DD 1C7D FB 1C7F	FAIL_CHECKNP SS\$_NORMAL ; check success PUSHL #SS\$_NORMAL CALLS #1,WREG_CHECKNP TSTW W^CHAN1 ; is there a channel #1 BEQL 10\$; br if error TSTW W^CHAN2 ; is there a channel #2 BNEQ 20\$; br if no error
0307°CF 0031°CF F6C8 CF 00 52 F7F6 CF 82 01 82 0139°CF 62 F7E6 CF 52	B5 1C84 2011 13 1C88 2012 B5 1C8A 2013 12 1C8E 2014 1C90 2015 10\$: DE 1C90 2016 FB 1C97 2017 D0 1C9C 2018 90 1CA1 2019 DE 1CA4 2020 D4 1CA9 2021 D0 1CAB 2022 1CB0 2023 20\$: FB 1CB0 2024 D1 1CB5 2025	MOVAL W^ASSIGN, W^SERV_NAME ; set service name ; save the step information MOVL W^ELBP, R2 ; get error log buf pntr MOVB #1, (R2)+ ; save longword count MOVAL W^CS4, (R2)+ ; save string variable CLRL (R2) ; set new terminator MOVL R2, W^ELBP ; reset the buffer pointer
0324'CF F67F CF 2A 0307'CF 0045'CF F69A CF 00 52 F7C8 CF 82 03 82 F662 CF 82 0324'CF 82 01B8'CF 62 F7AE CF 52	1CBO 2023 20\$: FB 1CBO 2024 D1 1CB5 2025 13 1CBC 2026 DE 1CBE 2027 FB 1CC5 2028 D0 1CCA 2029 90 1CCF 2030 3C 1CD2 2031 D0 1CD7 2032 DE 1CDC 2033 D4 1CE1 2034 D0 1CE3 2035 1CE8 2036 30\$: 04 1CE8 2037	CALLS #0, W^COUNT_CHAN ; check the number of assigned channels CMPL W^TOTAL_CHAN, W^CHAN_SAVE ; correct # of channels? BEQL 30\$; br if OK MOVAL W^DASSGN, W^SERV_NAME ; set service name CALLS #0, W^STORE_STEP ; save the step information MOVL W^ELBP, R2 ; get error log buf pointer MOVB #3, (R2)+ ; save long word count MOVZWL W^TOTAL CHAN, (R2)+ ; save the received count MOVL W^CHAN_SAVE, (R2)+ ; save expected count MOVAL W^TOCC, (R2)+ ; save string variable CLRL (R2) ; set a new terminator MOVL R2, W^ELBP ; reset buffer pointer RET ; return

SA VO



VO

SATSSSO1 Symbol table	- SATS SYSTEM S	ERVICE	TESTS (SUCC S.C.) 16-SEP-1984 5-SEP-1984	00:44:47 VAX/VMS M 04:29:37 CUETPSY.S	acro V04-00 RCJSATSSS01.MAR;1	Page	54
SSARGS SST1 SST2	= 0000000C = 00000004 = 00000004 = 00000084		CTL\$GW_NMIOCH	0000025F R	04 03 03 03 02		
\$\$12	= 00000004 = 00000084		CURRENT_TC	00000004 R 00000085 R	03		
30	= 00000084 000011C3 R 000011C3 R 000011CA R 0000008D R 00000038 R = 00000010 = 00000014 = 00000014 = 00000005 = 00000005 = 000000005 = 00000008	04 04 04 03 02	DALLOCS_ACMODE	0000025F R 00000004 R 00000008 R = 00000004 R = 00000002 R 00000004 R = 00000004 R = 00000001 R = 000000000 R = 00000000 R = 000000000 R = 000000000 R = 00000000 R = 00000000 R	02		
SO LLDAL_CHK	000011CA R 00001B5C R	04	DALLOCS_ACMODE DALLOCS_DEVNAM DALLOCS_NARGS	= 00000002	0.2		
LLOC	00000038 R	02	DASS DASS CHAN	00000045 R	03		
LLOCS_ACMODE LLOCS_DEVNAM LLOCS_FLAGS LLOCS_NARGS LLOCS_PHYBUF LLOCS_PHYLEN	= 00000010 = 0000004		DASSGNS_CHAN DASSGNS_NARGS DC\$_MAILBOX DCLTMH DEV\$M_AVL DEV\$M_IDV DEV\$M_MBX DEV\$M_ODV DEV\$M_REC DEV\$M_SHR DIB\$K_LENGTH DIB\$W_UNIT	= 00000001			
LLOCS NARGS	= 00000014		DCLCMH DEVSM AVI	00000077 R	02		
LLOCS_PHYLEN RGLST	= 00000008 00000204 P	02	DEV\$M_IDV	= 04000000			
RGLST1 SGN	000002EB R	02 03 04 02	DEVSM ODV	= 08000000 = 00000001			
SSDAS_CHK	000018EF R	04	DEVSM_SHR DIBSK_LENGTH	= 00010000 = 0000074			
SSIGNS_ACMODE SSIGNS_CHAN SSIGNS_DEVNAM SSIGNS_MBXNAM SSIGNS_NARGS	000002D4 R 00000079 R 00001BEF R 00000031 R = 00000000 = 00000008 = 00000004 = 000000004		DIB\$W_UNIT DISALE	= 0000000C 000001A5 R	02		
SSIGNS DEVNAM	= 00000004 = 00000010		DISK_BUF_CHECK DISK_ITMEST DISK_NAME	00000097 R 000011CB R	02 04 04 04 04 04 04		
SSIGNS NARGS	000008CD R	04	DISK_ITMEST DISK_NAME	00001227 R 00001227 R	04		
ST1 ST2 ST3	000008F0 R 0000097F R	04 04 04	DISK_UNIT	00001243 R 00001283 R	04		
AST4 ASTEXP	00000A3A R 00000193 R	04 04 02 03	DOT DIR SEMI	000004C4 R = 00000006	03		
TR	0000048F R = 00000010 = 0000056	03	DOT_DIR_SEMI_LENGTH DTS_MBX DVIS_DEVNAM	= 00000001 = 0000020			
TRSC_ASCNAME TRSS_ASCNAME	= 00000056 0000017B R	03	DVIS UNIT EFCNAM	= 0000000C 00000241 R	02		
BUF CHECK	00001287 R 000000A5 R	03 04 03 02	ELBP EM	00001496 R 00000217 R	02 04 02 04 04		
ANCELS_CHAN ANCELS_CHAN ANCELS_NARGS AN_CHECK CBSB_AMOD CCBSC_LENGTH	0000017B R 00001287 R 000000045 R 00000003E R = 00000004 = 00000001	02	ERLBUF_DUMP	00000241 R 00001496 R 00000217 R 0000149A R 00001AF2 R = 00000002	04		
ANCELS NARGS	= 00000001 0000131B R	04	ERROR EXESC_CMSTKSZ	= 00000002	04		
CB\$B_AMOD CB\$C_LENGTH	= 00000009	0.7	FIB ACCT	00000174 R	04 02 03		
HAN2	00000320 R 00000322 R	03	FIBSL EXSZ	= 00000018			
HAN SAVE	00001D05 R	04	FIBSL LOC ADDR	= 00000010			
HM_CONT LEAN_UP COUNT_CHAN	000010E3 R	04	FIBSM ALCON	= 00000001			
	= 00000010 00000320 R 00000322 R 000001005 R 00000059 R 000010E3 R 0000133C R 000000A7 R 0000000P R 00000106 R 00000139 R	02	FIB\$L_ACCTL FIB\$L_EXSZ FIB\$L_EXVBN FIB\$L_LOC_ADDR FIB\$L_WCC FIB\$M_ALCON FIB\$M_EXTEND FIB\$M_FILCON FIB\$M_NOREAD FIB\$M_NOWRITE	= 00000004 = 00000400			
\$2 \$3 \$4 \$5	00000106 R	05	FIBSM_NOWRITE FIBSM_SUPERSEDE	= 00000001 = 00000400			
CSS CTL\$GL_CCBBASE	0000015F R	03334344222222444	FIBSM_SUPERSEDE FIBSM_WRITE FIBSW_DID FIBSW_EXCTL	00000174 R 00000466 R = 00000018 = 0000001C = 00000010 = 00000010 = 00000001 = 00000001 = 00000001 = 00000001 = 000000001 = 000000001 = 000000001 = 0000000001 = 000000000000000000000000000000000000			
CTLSGL_PHD	****** X	04	FIBSW_EXCTL	= 00000016			

SATSSSO1 Symbol table	- SATS SYSTEM S	SERVICE	TESTS (SUCC S.C.) 16-SEP-19	84 00:44:47 VAX/VMS 84 04:29:37 CUETPSY	Macro V04-00 SRCJSATSSS01.MAR;1	Page	55 (6)
FIBSW_FID RVN FIBSW_NMCTL FIBSW_NMCTL FIBDES FIBSIZE FILENAME FILNOTMOD FLAG GETCHNS CHAN GETCHNS NARGS GETCHNS PRIBUF GETCHNS PRILEN GETCHNS SCDBUF GETCHNS SCDLEN GETDEVS DEVNAM GETDEVS PRIBUF GETDEVS PRIBUF GETDEVS PRIBUF GETDEVS PRIBUF GETDEVS SCDBUF GETDEVS SCDBUF GETDEVS SCDBUF GETDEVS SCDBUF GETDEVS SCDLEN HANDLER PC	= 00000004 = 00000008 = 00000014 0000045E R = 0000001495 R 00001495 R 00000159 R 00000059 R = 00000005 = 00000005 = 00000006 = 00000006 = 00000014 = 00000014 = 00000014 = 000000006 = 00000006 = 00000006 = 00000006 = 00000006 = 00000006	03 030000000000000000000000000000000000	MFD_FILE_ID ML MODE MODE ID MOD_MSG_CODE MOD_MSG_PRINT MSGL MSGVEC MSGVEC1 NEXT NEXT1 NEXT2 OUTPUT PB PHD\$Q_PRIVMSK PL PR\$ USP PRINT FAIL PRIVMASK PRIV_ARGS PRV\$V SYSPRV PRVHND1	= 00040004 000001CB R 00000182F R 00000044 R 00001CE9 R 00000326 R 00000326 R 00000913 R 00000967 R 00000366 R = 000000051 R = 000000051 R = 00000001C 0000030B R 00000050 R = 00000001 R = 000000000000000000000000000000000000	03 04 03 04 03 04 04 04 02 03 03 04 03		
INPUT IOSM_ACCESS IOSM_CREATE IOSM_DELETE IOSM_READATIN IOSM_WRTATIN IOS_ACCESS IOS_CREATE IOS_DEACCESS IOS_DELETE IOS_MODIFY	= 00000014 = 00000010 00001133 R = 00000053 R = 00000040 = 00000080 = 00000100 = 00000100 = 0000032 = 0000033 = 0000035 = 0000036	04 02	PSLSC_EXEC PSLSC_KERNEL PSLSC_SUPER PSLSC_USER PSLSS_CURMOD PSLSV_CURMOD PSLSV_PRVMOD QIO QIOS_ASTADR	= 00000018	02		
IOS_READLBLK IOS_READPBLK IOS_READVBLK IOS_SETMODE IOS_WRITELBLK IOS_WRITEOF IOS_WRITEPBLK IOS_WRITEVBLK IOCC IOEXP IONC KM LIB\$SIGNAL MBA MBCHAN MBNAM MB_CHAR_SIZE MB_DEV_CHAR	= 00000021 = 000000000000000000000000000000000000	02242233 0042233 003	QIOS CHAN QIOS EFN QIOS FUNC QIOS IOSB QIOS NARGS QIOS P1 QIOS P2 QIOS P3 QIOS P4 QIOS P5 QIOS P6 QIOP QIOW QIOWS ASTADR QIOWS ASTADR QIOWS CHAN QIOWS EFN QIOWS FINC QIOWS IOSB QIOWS P1 QIOWS P2 QIOWS P1 QIOWS P2 QIOWS P2 QIOWS P2 QIOWS P2	= 00000008 = 000000000000000000000000000000000000	03		

SATSSSO1 Symbol table	- SATS SYSTEM	SEKAILE I	ESTS (SUCC S.C.) 16-SEP- 5-SEP-	1984 00:44:47 VAX/VMS Macro V04-00 1984 04:29:37 [UETPSY.SRC]SATSSS01.MAI	Page	56
GIOWS-P6 GIOWS-P6 GIOWS-P6 GIOWS-P6 GIOWS-P6 GIOWS-P6 GIOWS-P6 GIOWS-P6 REG CHECK REG_CHECKNP REG_SAVE_AREA REG_SAVE_AREA REIDR RETURN PC SATSSS01 SB NAME SETUP SUPER SEVERE SEVERE SEVERE SSY-SAVE-PC SSHR\$C-SAVE-PC SSTRAT STATUS SSTAT STATUS STAT STATUS STAT STAT	= 00000030 R R O000015D R R O000015D R R O000015D R R O0000138F R O0000138F R O000007E R R O000005D R R O00000307 R R O0000130 R R O0000010 = 000000130 R R O000002D R O0000010 = 000000010 = 0000000000000000	30000000000000000000000000000000000000	STP30 STP31 STP32 STP32 STP33 STP35 STP35 STP35 STP36 STP37 STP38 STP39 STP40 STP41 STP42 STP40 STP41 STP42 STP5 STP8 STP9 STSSV INHIB_MSG SUCCES MODE SYSSACLOC SYSSASCEFC SYSSASCEFC SYSSASCEFC SYSSASCEFC SYSSASCEFC SYSSASCEC SYSSACCEL SYSSCMEXEC SYSCMEXEC SYSCM	00000108 R 04 0000036 R 04 00000A36 R 04 00000B0B R 04 00000CFE R 04 00000DA7 R 04 00000E45 R 04 00000E45 R 04 00000F20 R 04 00000183 R 04 00000185 R 04 00000185 R 04 00000185 R 04 00000185 R 04 00000187 R 04 0000188 R 04 0000188 R 04 0000018 R 04 00000188 R 04 0000018 R 04 00000018 R 04 00000018 R 04 00000018 R 04 00000018 R 04 0000000000000000000000000000000000		

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- SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47
                                                                                                                                                                VAX/VMS Macro V04-00
[UETPSY.SRC]SATSSS01.MAR;1
 SATSSS01
                                                                                                                                                                                                                          57 (6)
                                                                                                                                                                                                                Page
Symbol table
                                                       00000009 R
0000001F R
0000004C R
0000004B R
000004D2 R
000004E4 R
00001338 R
00000000 R
00748010
00748019
TEST_MOD_NAME_D
TEST_MOD_SUCC
TMD_ADDR
TMN_ADDR
TOPSYS
TOPSYS_DIR
TOTAL_CHAN
TPID
TPID
UETPS DATAER
UETPS SATSMS
UETPS TEXT
                                                     =
                                                     = 00741133
000001FE R
= 00000000
UM
                                                                                  02
 WARNING
                                                                                     Psect synopsis
 PSECT name
                                                       Allocation
                                                                                         PSECT No.
                                                                                                           Attributes
                                                                                                                                                                                            NOWRT NOVEC BYTE WRT NOVEC BYTE NOWRT NOVEC LONG WRT NOVEC LONG WRT NOVEC LONG
     ABS
                                                       00000000
                                                                                                           NOPIC
                                                                                                                                                       LCL NOSHR NOEXE NORD
                                                                                                           NOPIC
NOPIC
NOPIC
                                                                                        01
02
03
 SABS$
                                                       0000000
                                                                                                                         USR
                                                                                                                                   CON
                                                                                                                                             ABS
                                                                                                                                                       LCL
                                                                                                                                                             NOSHR
                                                                                                                                                                                     RD
                                                       000002EC
 RODATA
                                                                                                                         USR
                                                                                                                                   CON
                                                                                                                                             REL
                                                                                                                                                       LCL
                                                                                                                                                             NOSHR NOEXE
                                                                                                                                                                                     RD
                                                                                                                         USR
                                                                                                                                   CON
                                                                                                                                             REL
                                                                                                                                                       LCL NOSHR NOEXE
 RWDATA
                                                                                                                                                                                     RD
                                                       00001D0D
                                                                                                           NOPIC
 SATSSS01
                                                                                                                         USR
                                                                                                                                   CON
                                                                                                                                                       LCL NOSHR
                                                                                                                                                                           EXE
                                                                                                                                                                                     RD
                                                                               Performance indicators
```

Phase	Page faults	CPU Time	Elapsed Time
Initialization	33	00:00:00.09	00:00:00.48
Command processing Pass 1	33 112 1286	00:00:00.63	00:00:01.54
Symbol table sort	0	00:00:03.70	00:00:04.43
Pass 2	846 18	00:00:08.61	00:00:10.90
Symbol table output Psect synopsis output	3	00:00:00.03	00:00:00.04
Cross-reference output Assembler run totals	2301	00:00:00.00	00:00:00.00

The working set limit was 1800 pages.
210140 bytes (411 pages) of virtual memory were used to buffer the intermediate code.
There were 120 pages of symbol table space allocated to hold 2297 non-local and 50 local symbols.
2069 source lines were read in Pass 1, producing 48 object records in Pass 2.
105 pages of virtual memory were used to define 100 macros.

S

SATSSSO1 - SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 00:44:47 VAX/VMS Macro V04-00 Page 58 VAX-11 Macro Run Statistics - SATS SYSTEM SERVICE TESTS (SUCC S.C.) 16-SEP-1984 04:29:37 [UETPSY.SRC]SATSSSO1.MAR;1 (6)

! Macro library statistics !

Macro library name

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2 _\$255\$DUA28:[SHRLIB]UETP.MLB;1 _\$255\$DUA28:[SYS.OBJ]LIB.MLB;1 _\$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries) Macros defined

82
13
2
0
97

2752 GETS were required to define 97 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:SATSSS01/OBJ=OBJ\$:SATSSS01 MSRC\$:SATSSS01/UPDATE=(ENH\$:SATSSS01)+EXECML\$/LIB+SHRLIB\$:UETP/LIB

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